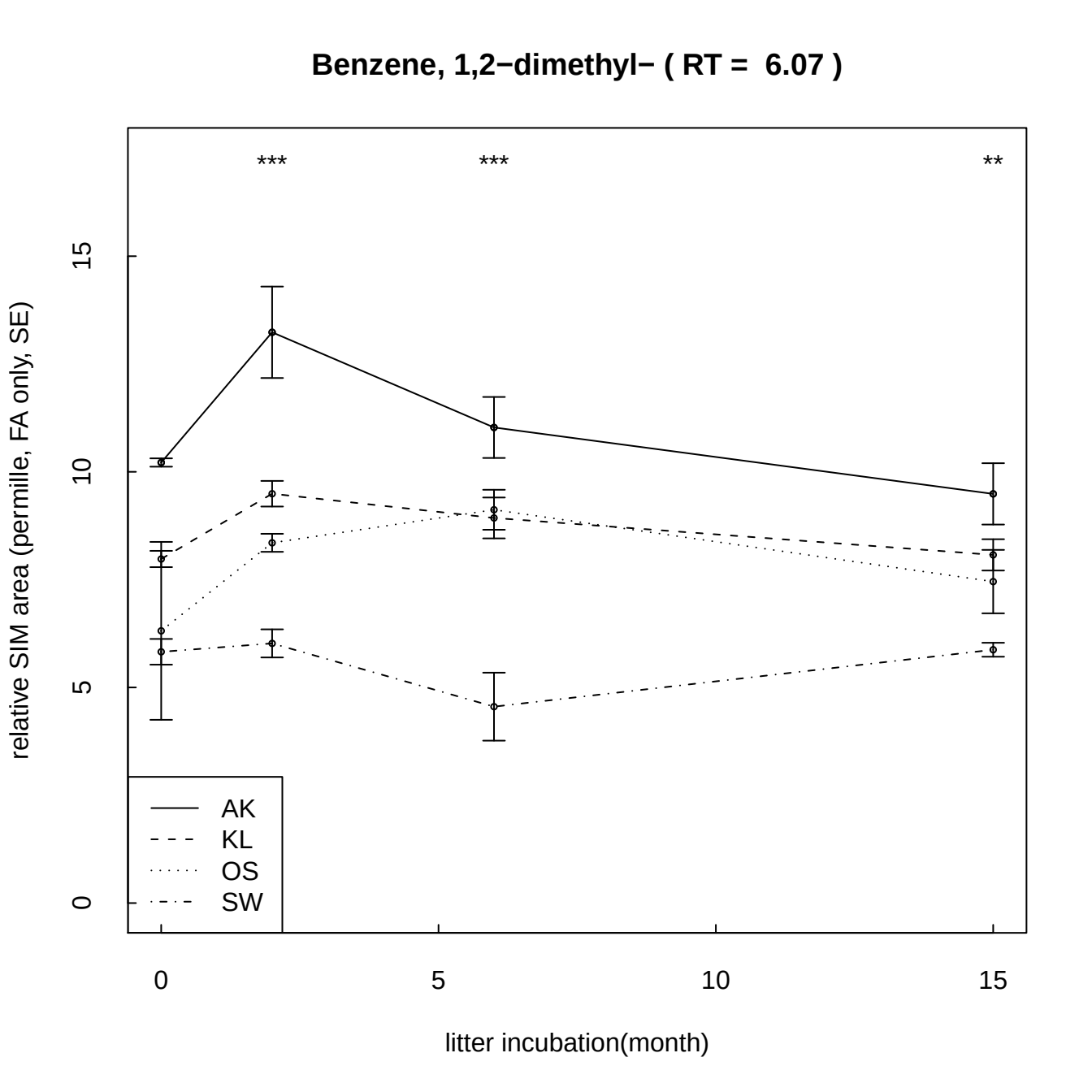
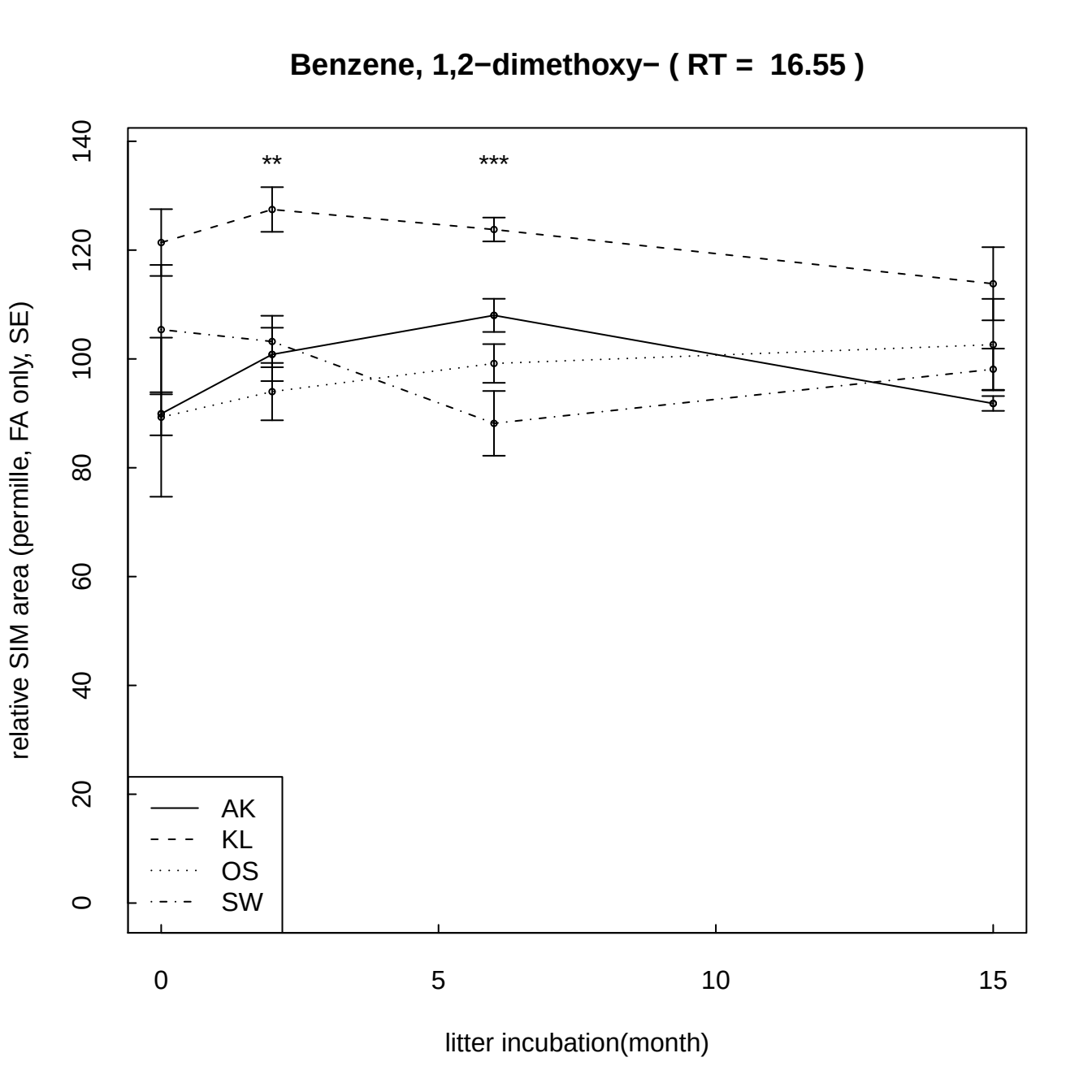
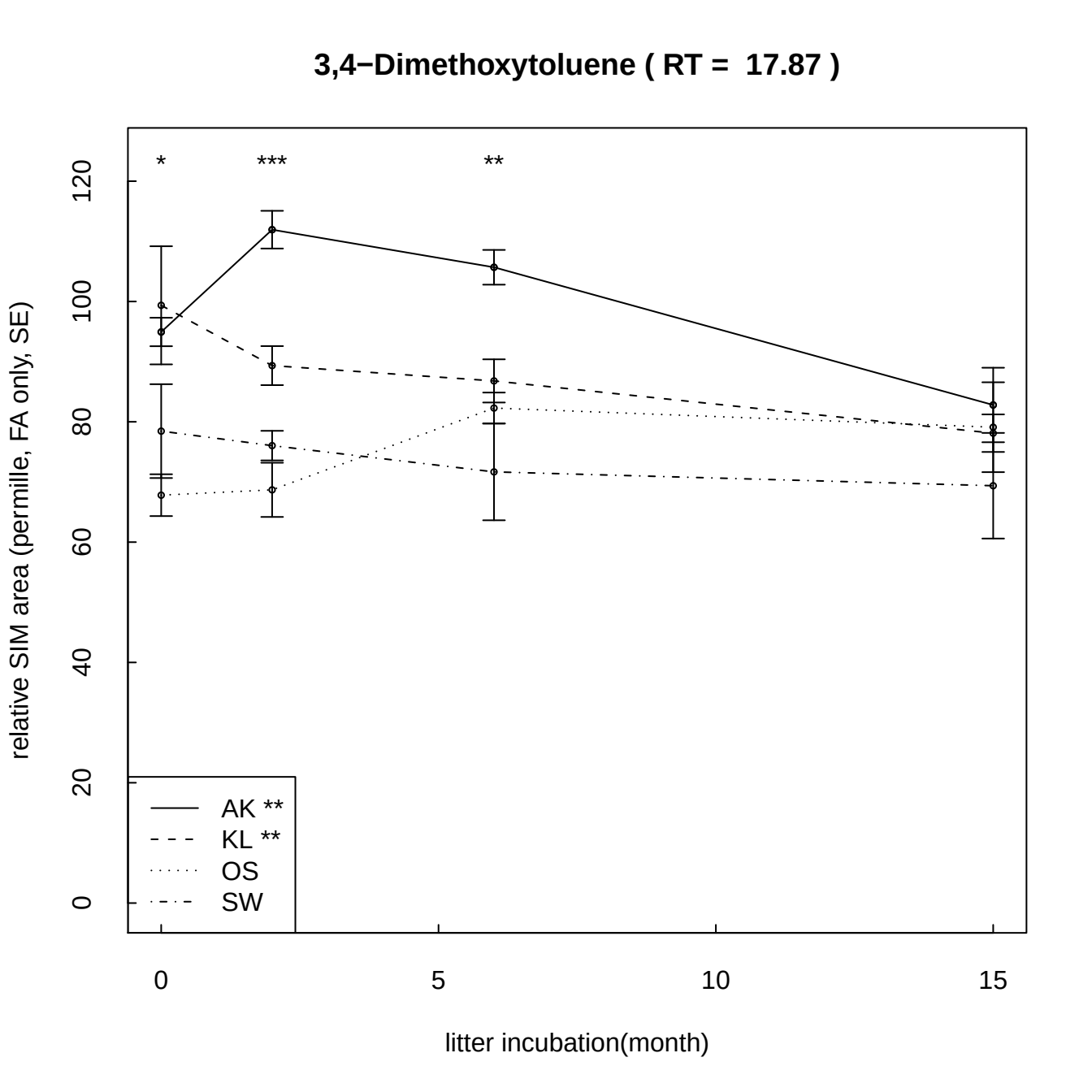
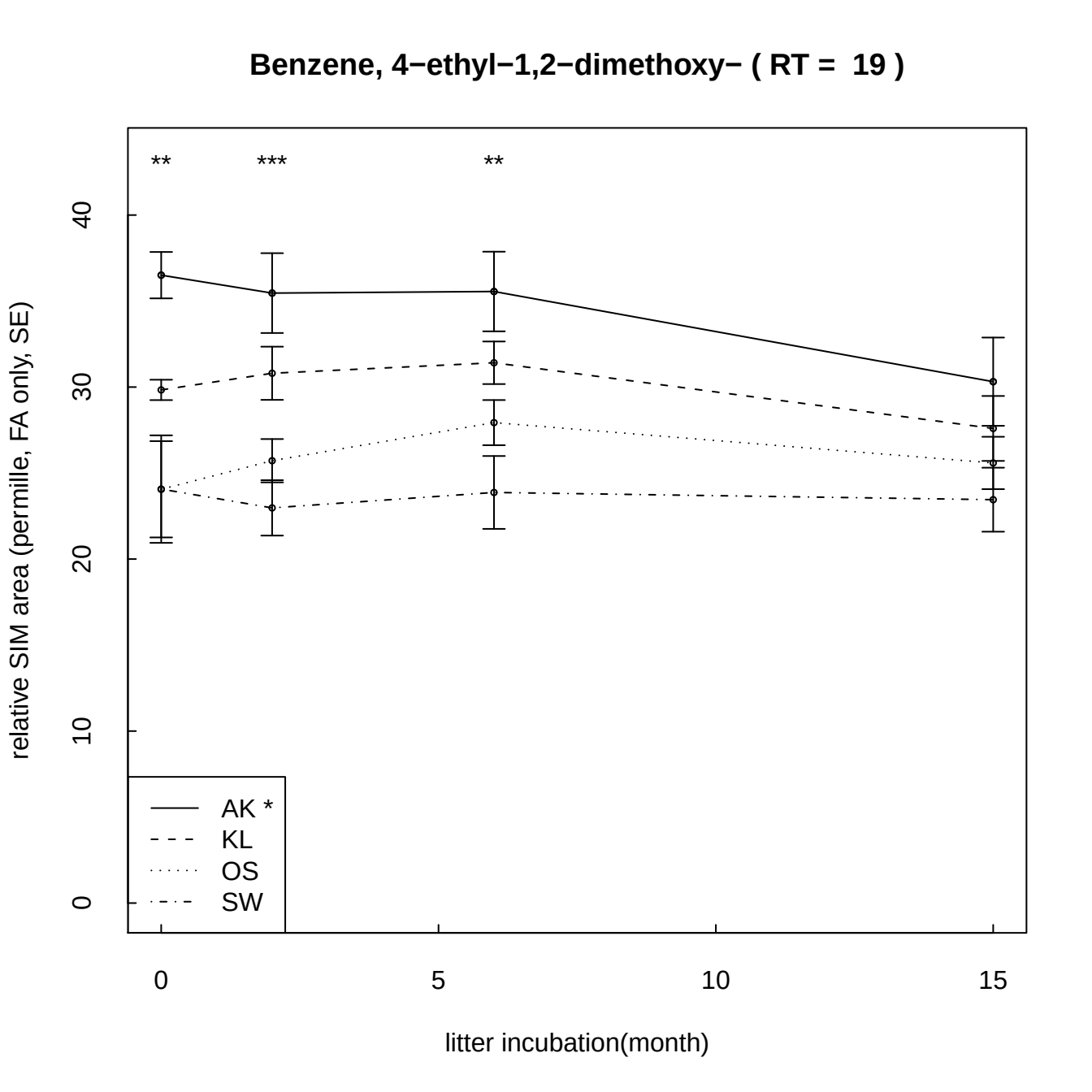
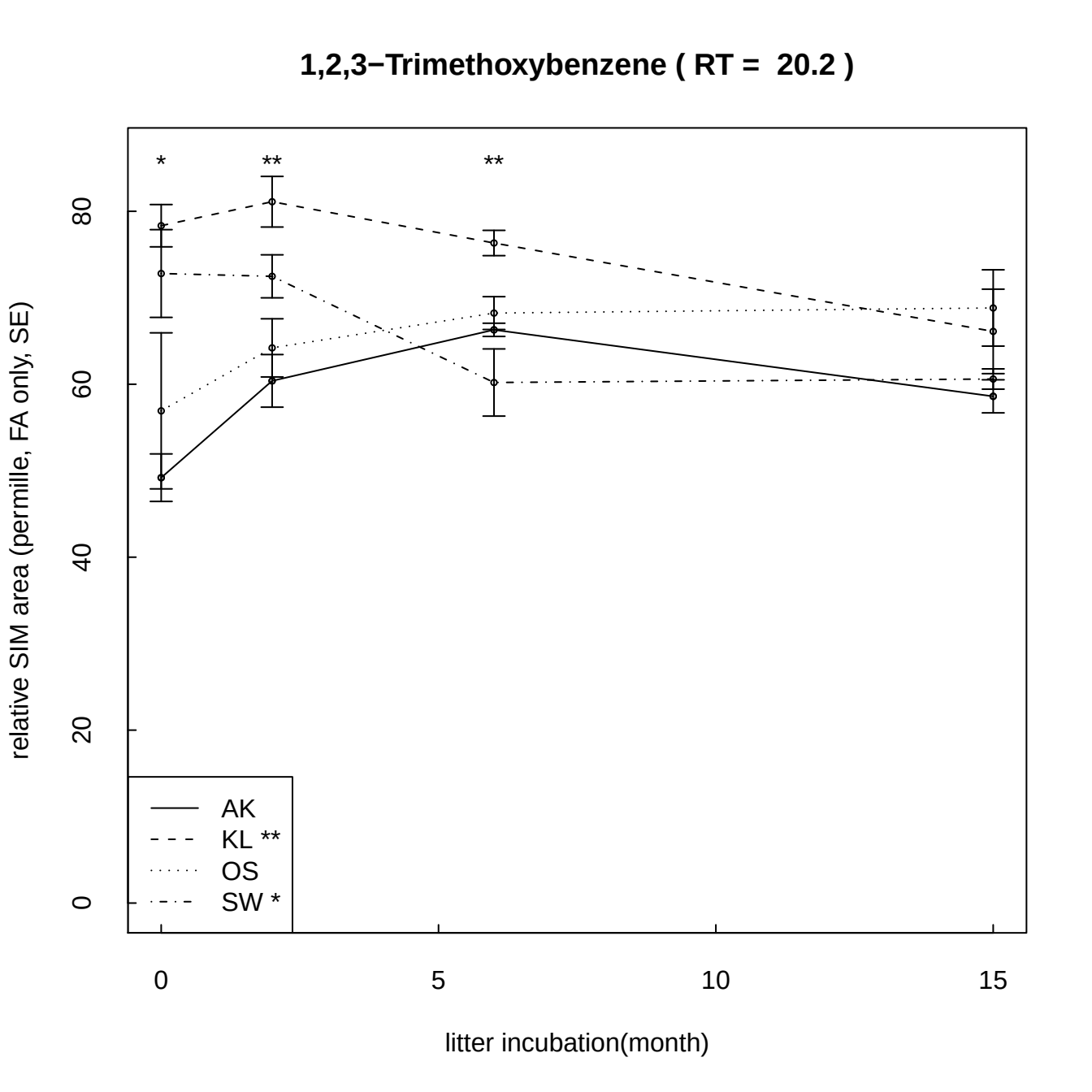
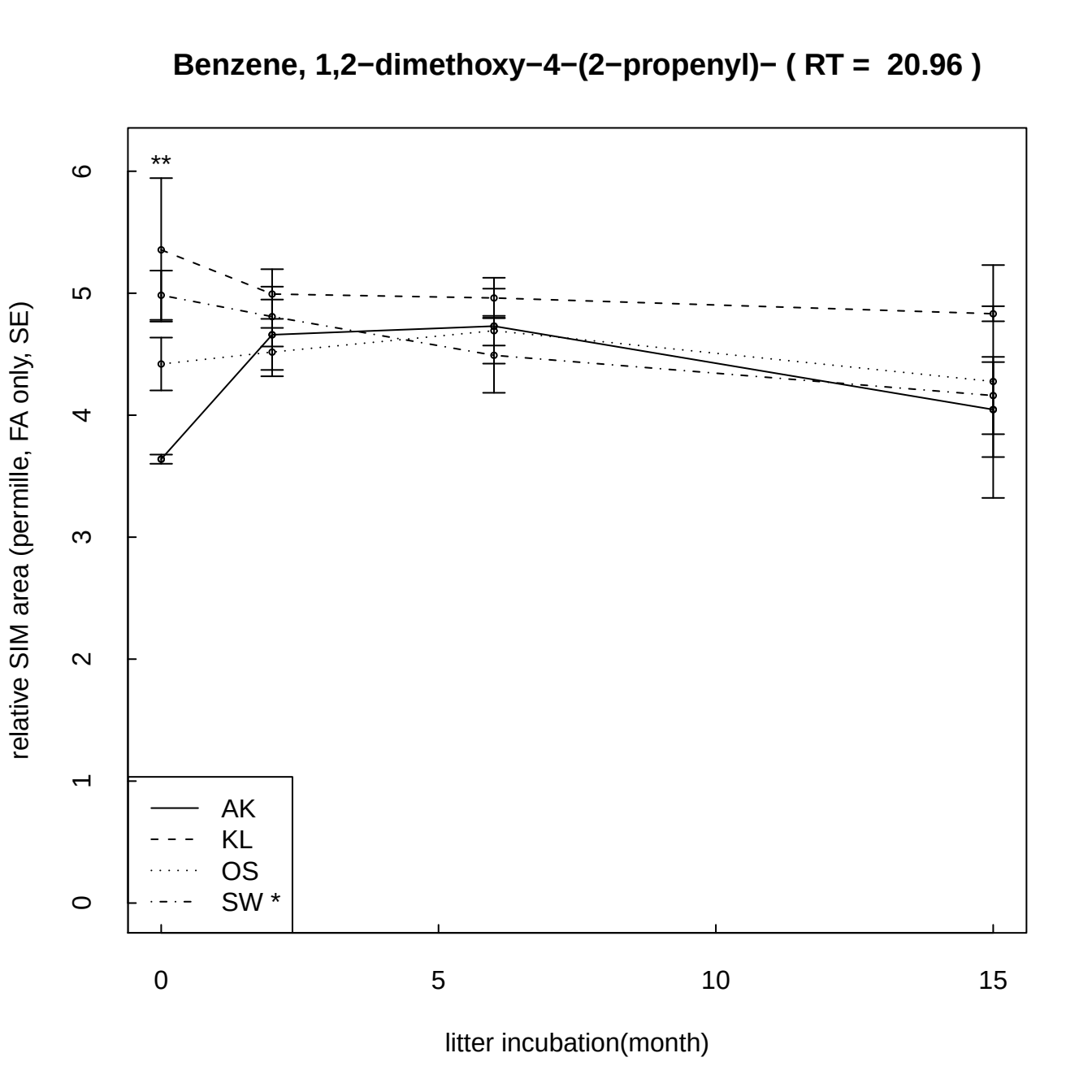

Benzene, 1,2−dimethyl− (RT = 6.07)
***
***
**
relative SIM area (permille, FA only, SE)
0
5
10
15
litter incubation(month)
AK
KL
OS
SW

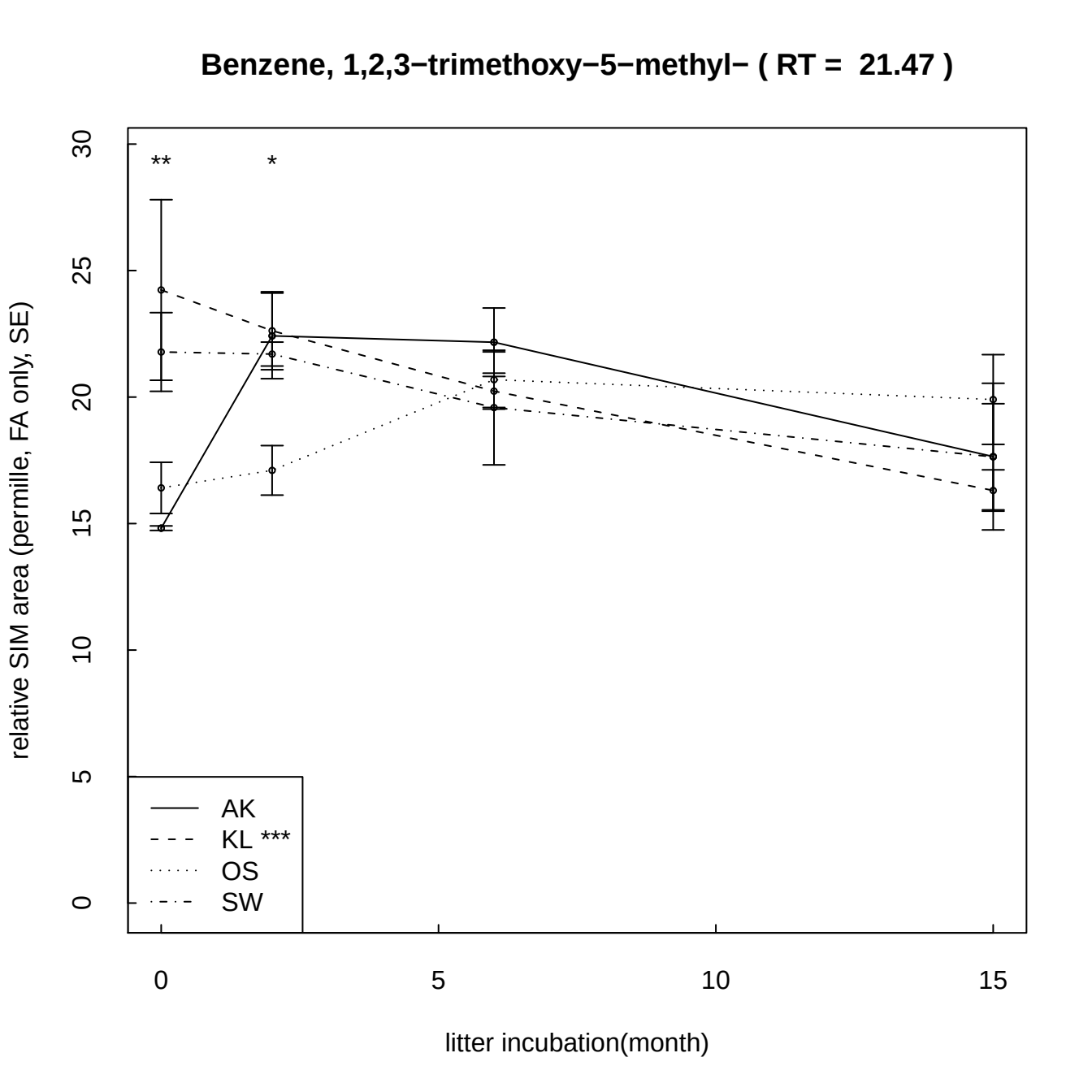

Benzene, 1,2−dimethoxy− (RT = 16.55)
relative SIM area (permille, FA only, SE)
litter incubation(month)
**
***
AK
KL
OS
SW
0
20
40
60
80
100
120
140
0
5
10
15

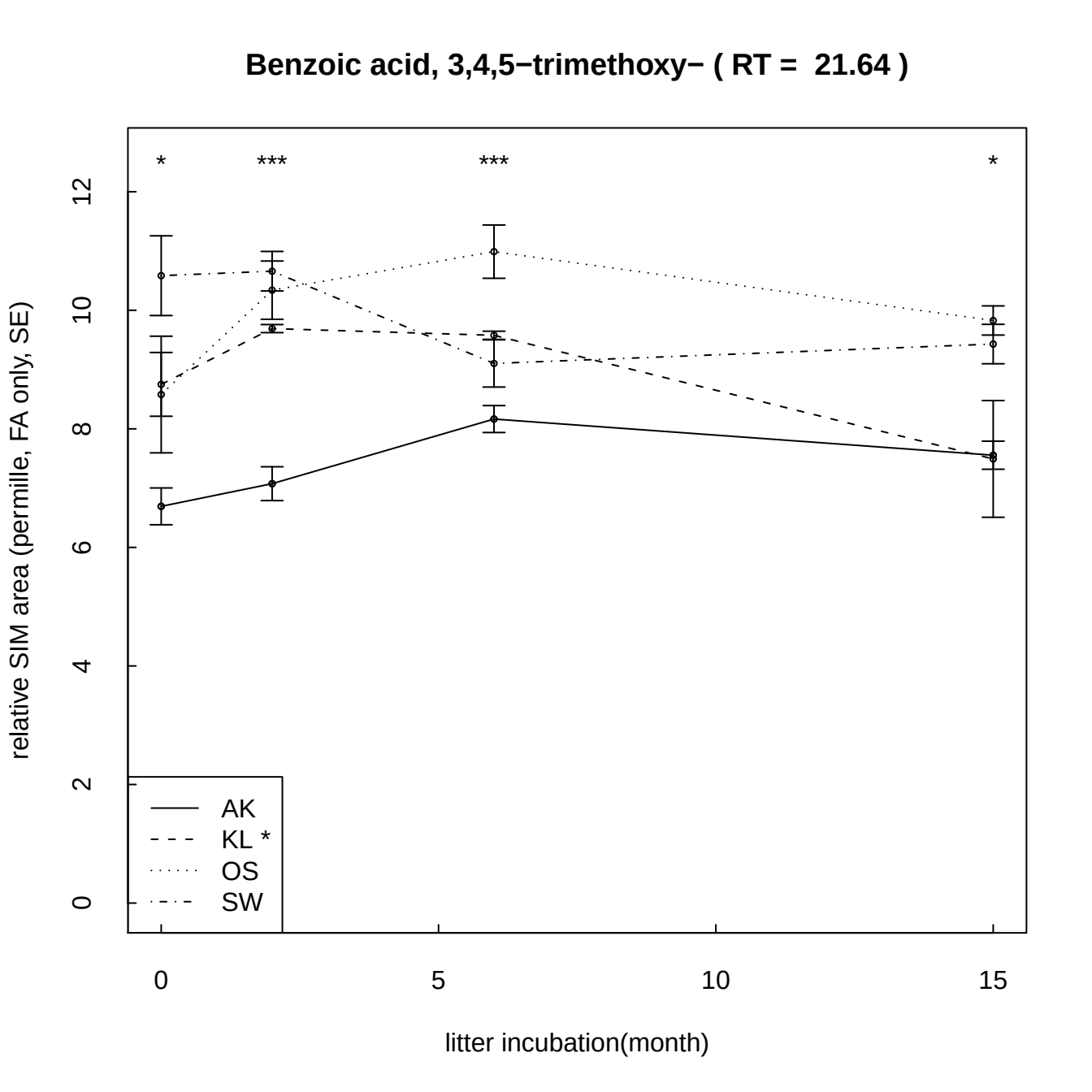

3,4−Dimethoxytoluene (RT = 17.87)
relative SIM area (permille, FA only, SE)
litter incubation(month)
*
***
**
AK **
KL **
OS
SW
0
20
40
60
80
100
120
0
5
10
15

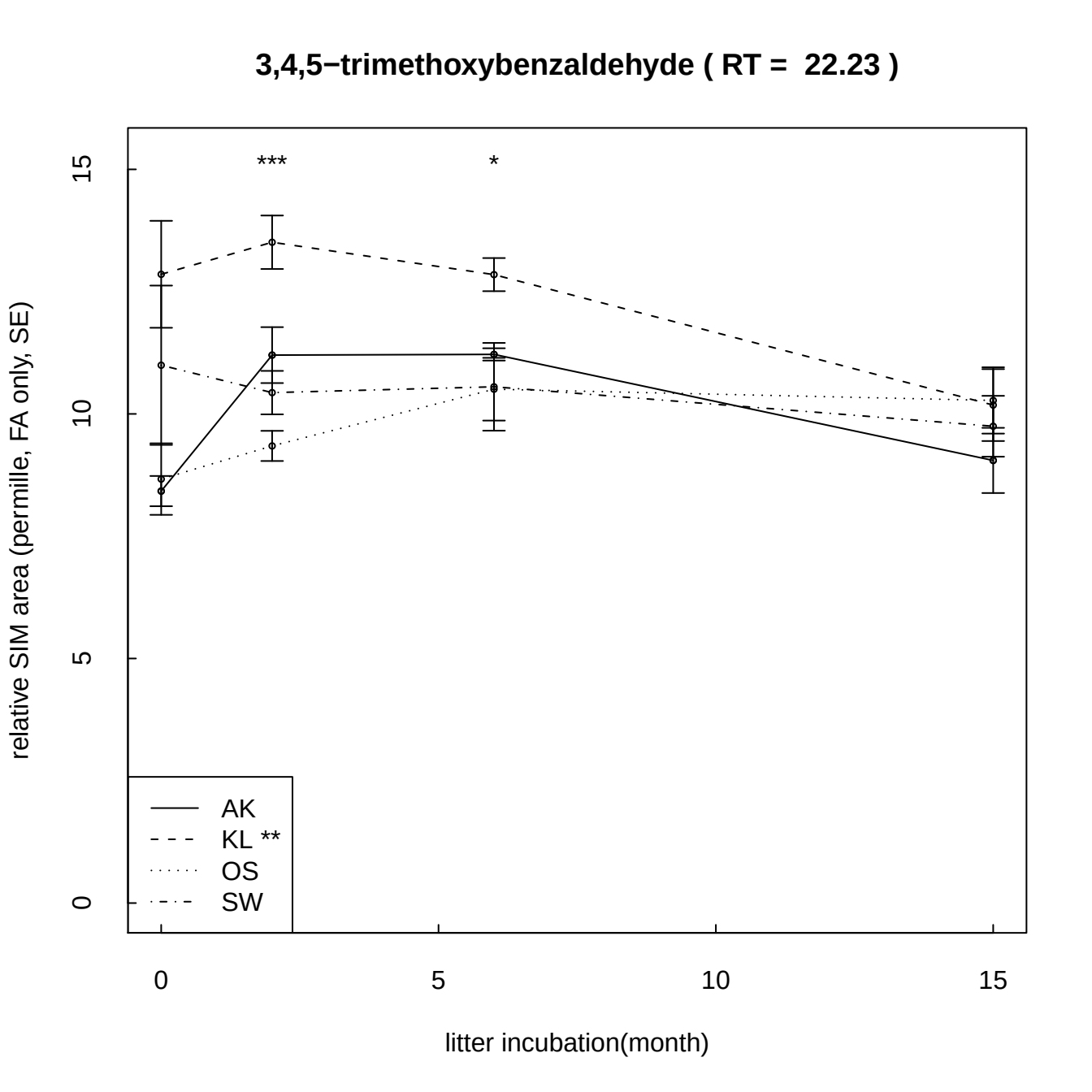

Benzene, 4−ethyl−1,2−dimethoxy− (RT = 19)
**
***
**
relative SIM area (permille, FA only, SE)
0
10
20
30
40
AK *
KL
OS
SW
0
5
10
15
litter incubation(month)

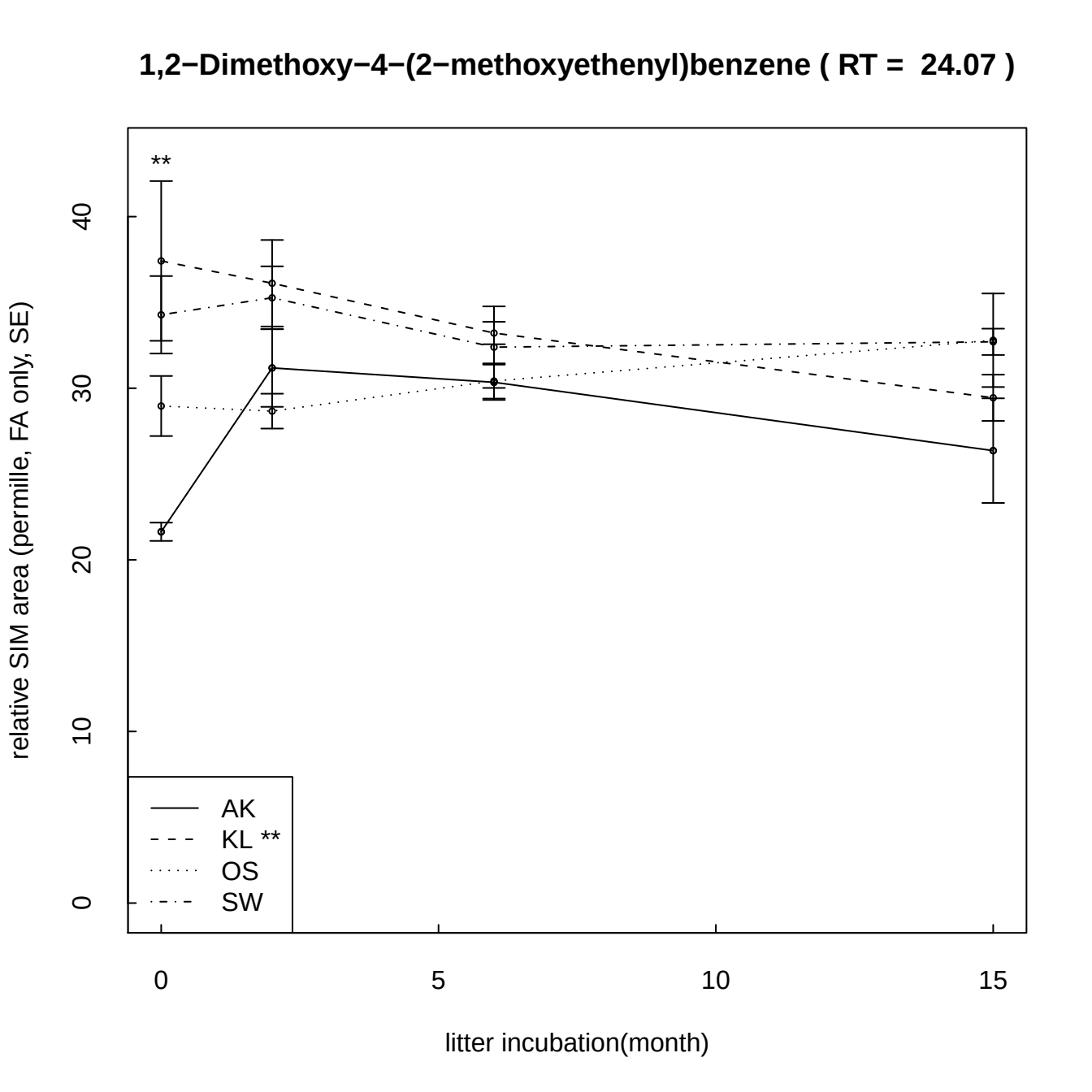

1,2,3−Trimethoxybenzene (RT = 20.2)
relative SIM area (permille, FA only, SE)
litter incubation(month)
0
20
40
60
80
0
5
10
15
*
**
**
AK
KL **
OS
SW *

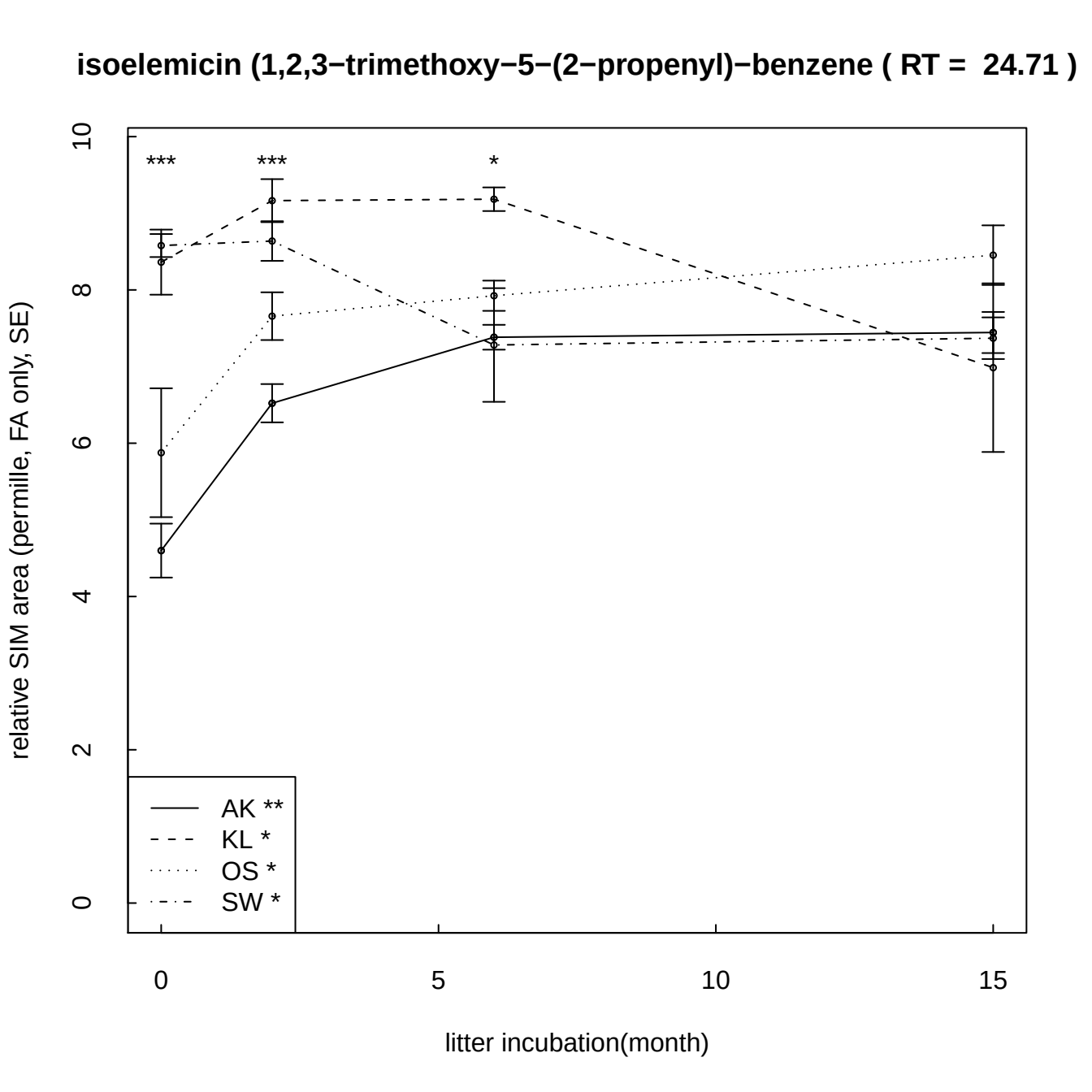

Benzene, 1,2−dimethoxy−4−(2−propenyl)− (RT = 20.96)
**
relative SIM area (permille, FA only, SE)
0
1
2
3
4
5
6
AK
KL
OS
SW *
0
5
10
15
litter incubation(month)

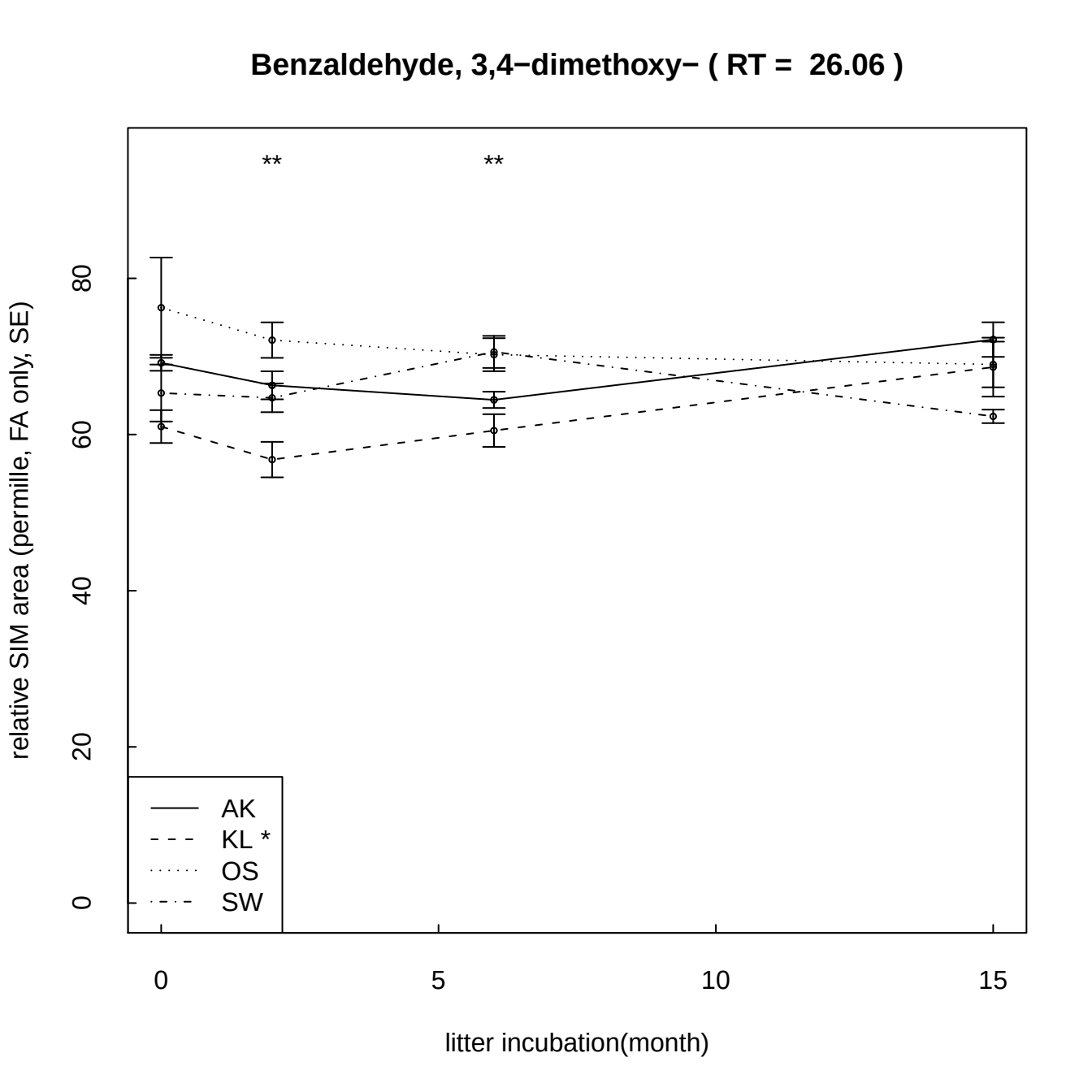

Benzene, 1,2,3−trimethoxy−5−methyl− (RT = 21.47)
relative SIM area (permille, FA only, SE)
litter incubation(month)
**
*
AK
KL ***
OS
SW
0
5
10
15
20
25
30

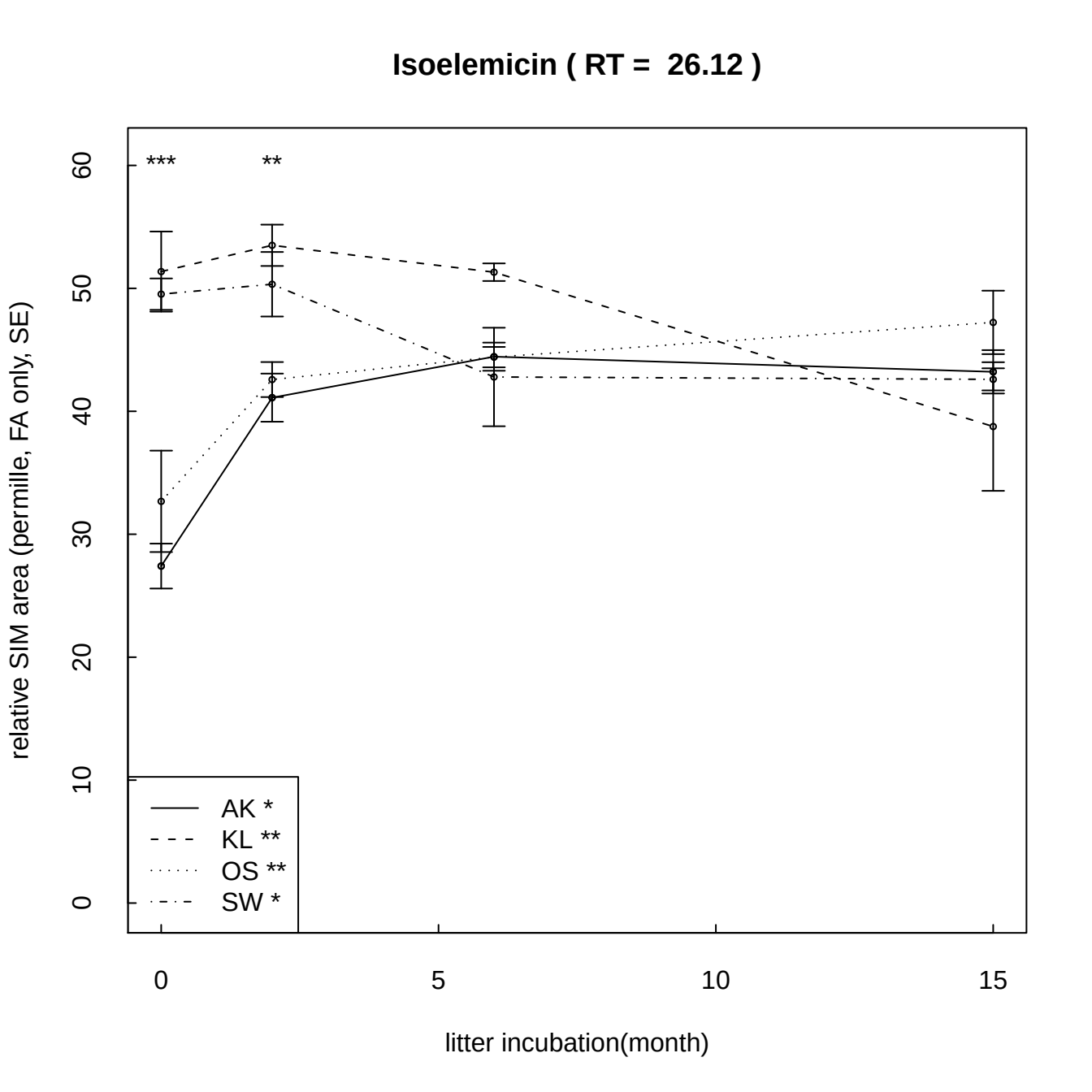

Benzoic acid, 3,4,5−trimethoxy− (RT = 21.64)
*
***
***
*
relative SIM area (permille, FA only, SE)
0
2
4
6
8
10
12
AK
KL *
OS
SW
0
5
10
15
litter incubation(month)

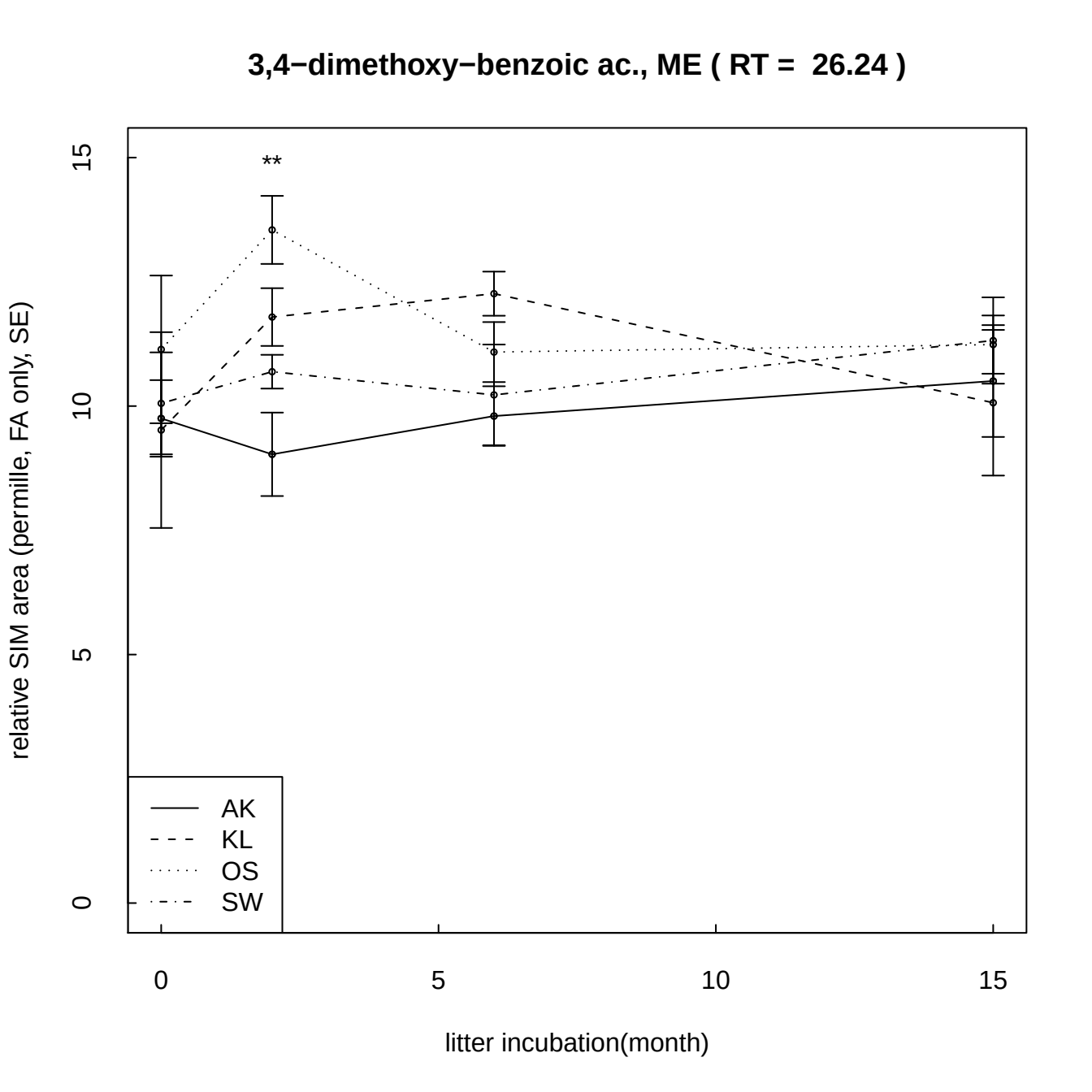

3,4,5−trimethoxybenzaldehyde (RT = 22.23)
***
*
relative SIM area (permille, FA only, SE)
0
5
10
15
AK
KL **
OS
SW
0
5
10
15
litter incubation(month)

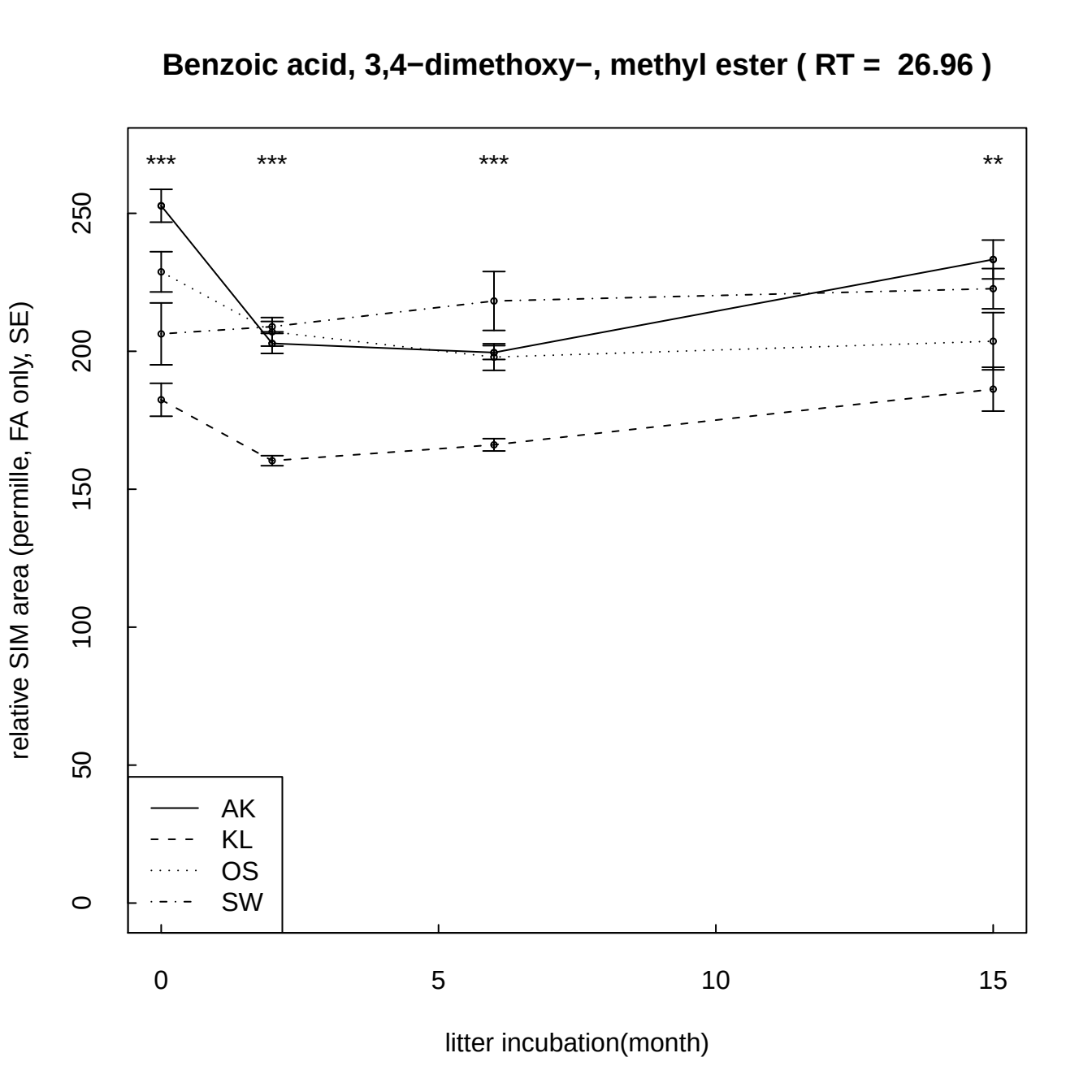

1,2−Dimethoxy−4−(2−methoxyethenyl)benzene (RT = 24.07)
**
relative SIM area (permille, FA only, SE)
0
10
20
30
40
AK
KL **
OS
SW
0
5
10
15
litter incubation(month)

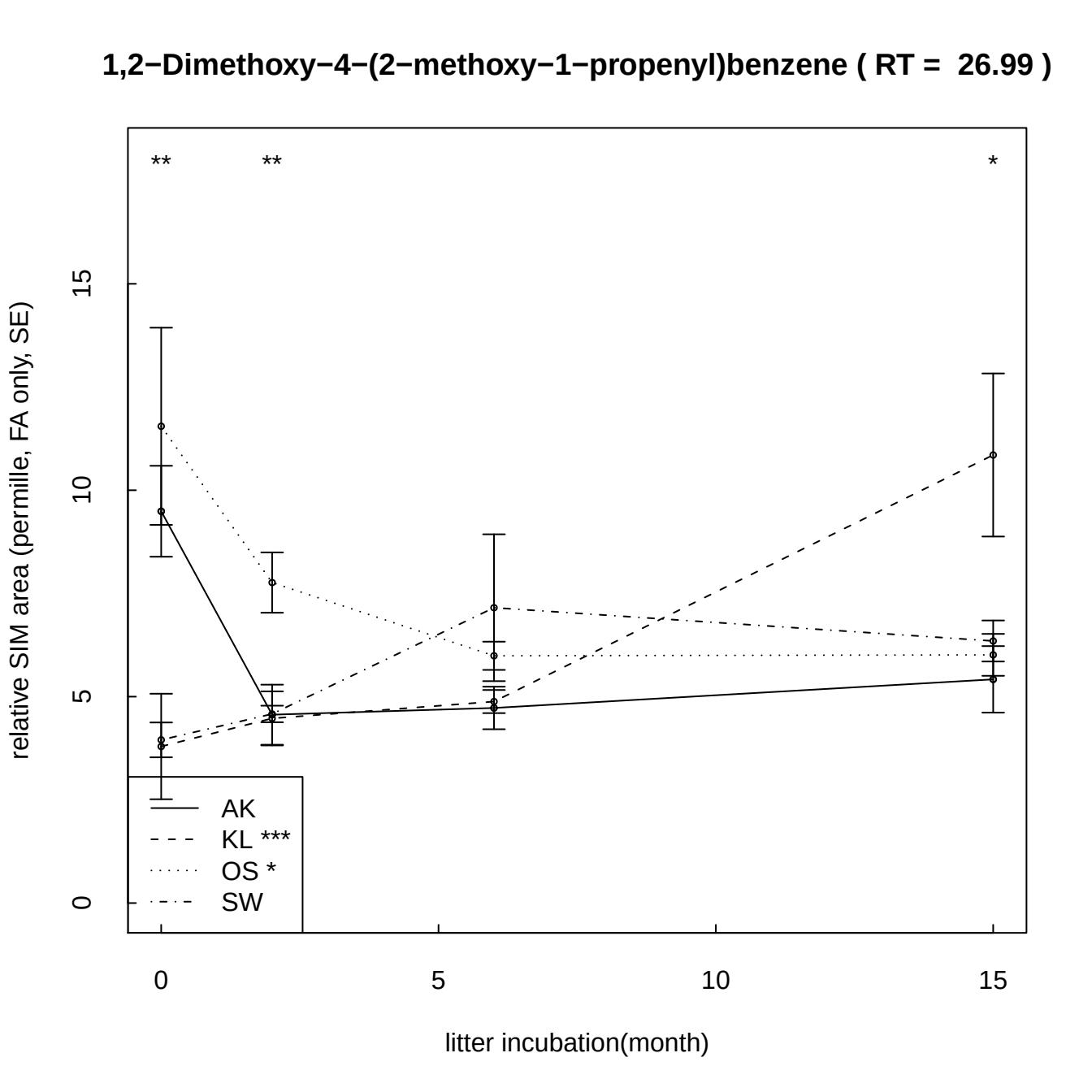

isoelemicin (1,2,3−trimethoxy−5−(2−propenyl)−benzene (RT = 24.71)
relative SIM area (permille, FA only, SE)
litter incubation(month)
***
***
*
AK **
KL *
OS *
SW *
0
2
4
6
8
10
0
5
10
15

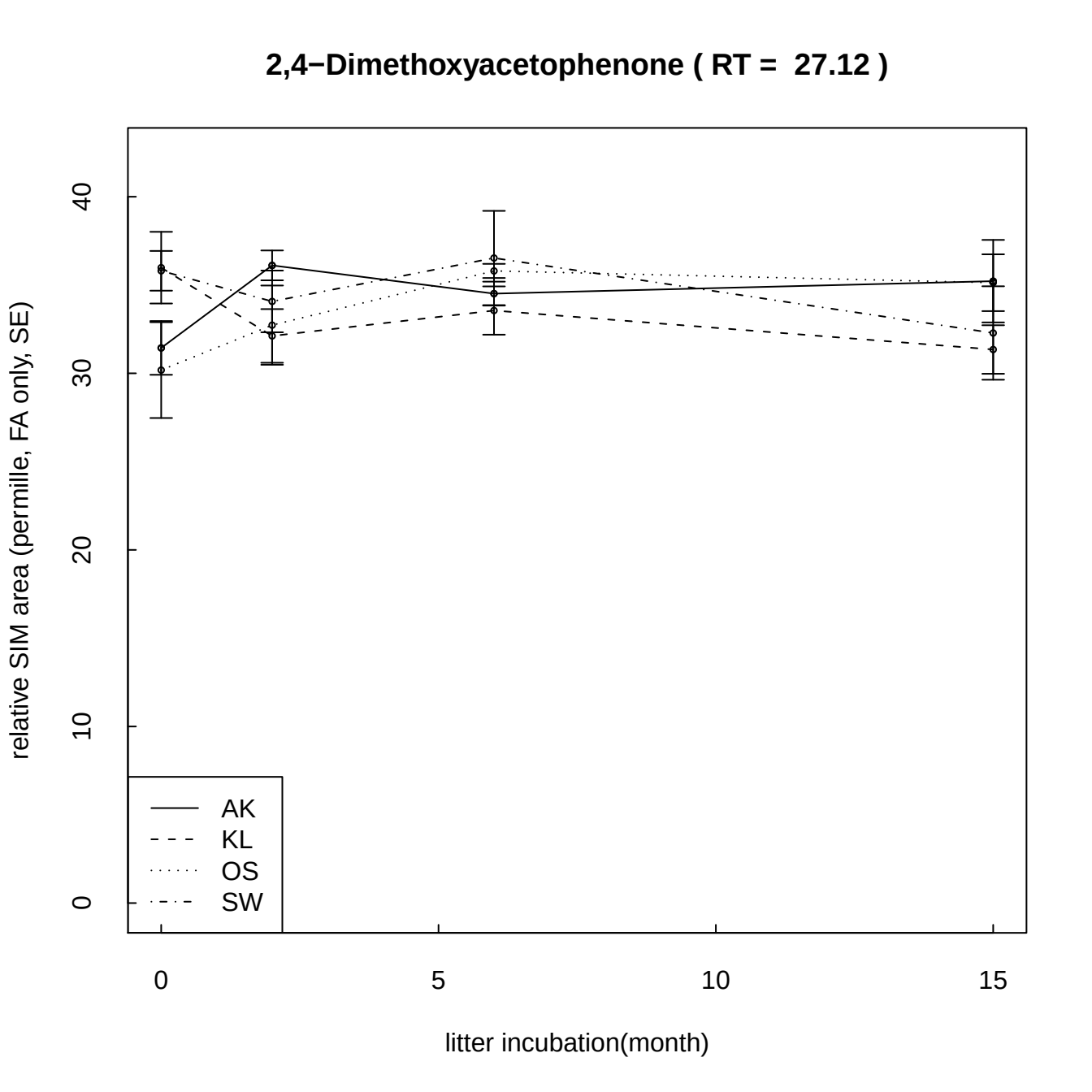

Benzaldehyde, 3,4−dimethoxy− (RT = 26.06)
**
**
relative SIM area (permille, FA only, SE)
0
20
40
60
80
0
5
10
15
litter incubation(month)
AK
KL *
OS
SW

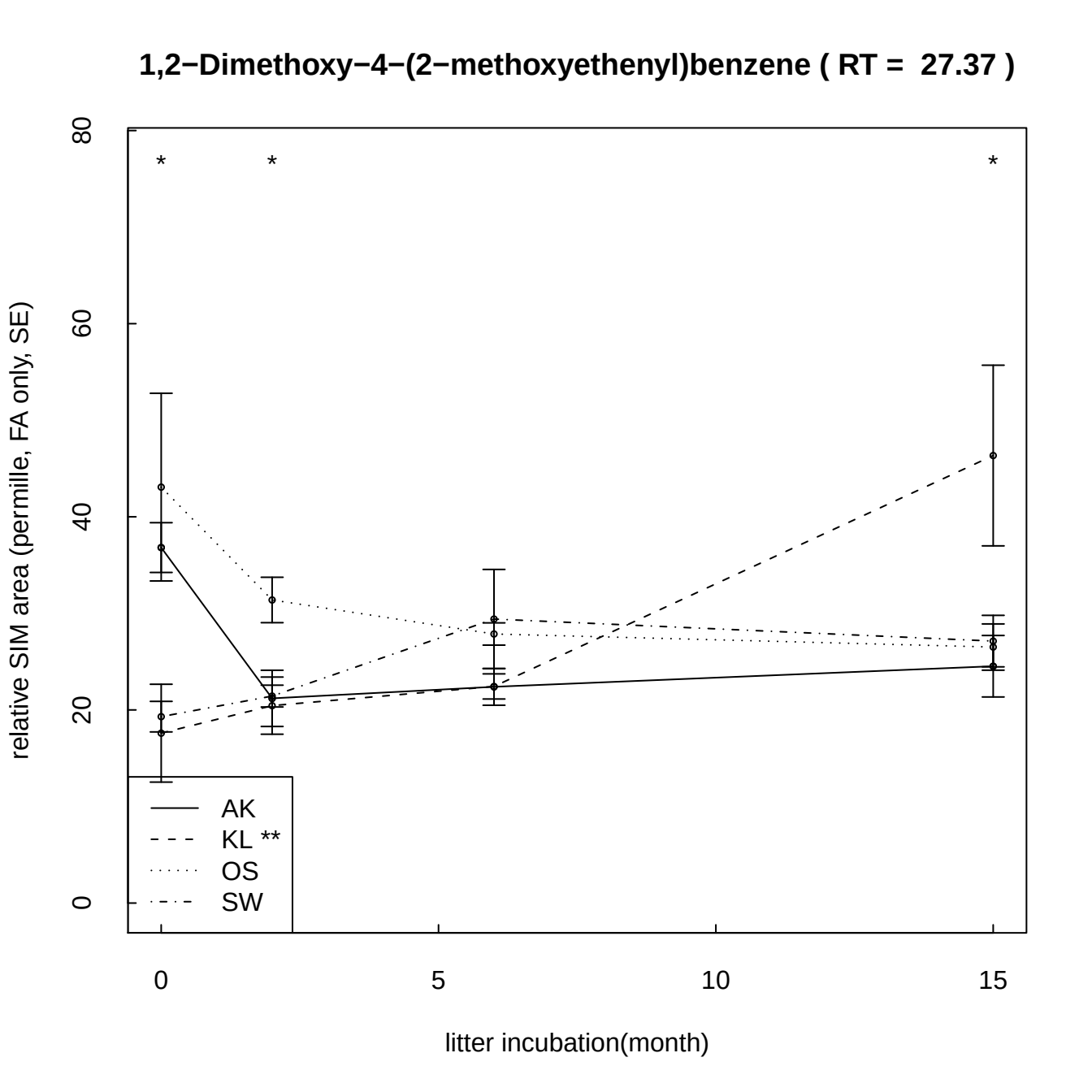

Isoelemicin (RT = 26.12)
***
**
relative SIM area (permille, FA only, SE)
0
10
20
30
40
50
60
AK *
KL **
OS **
SW *
0
5
10
15
litter incubation(month)

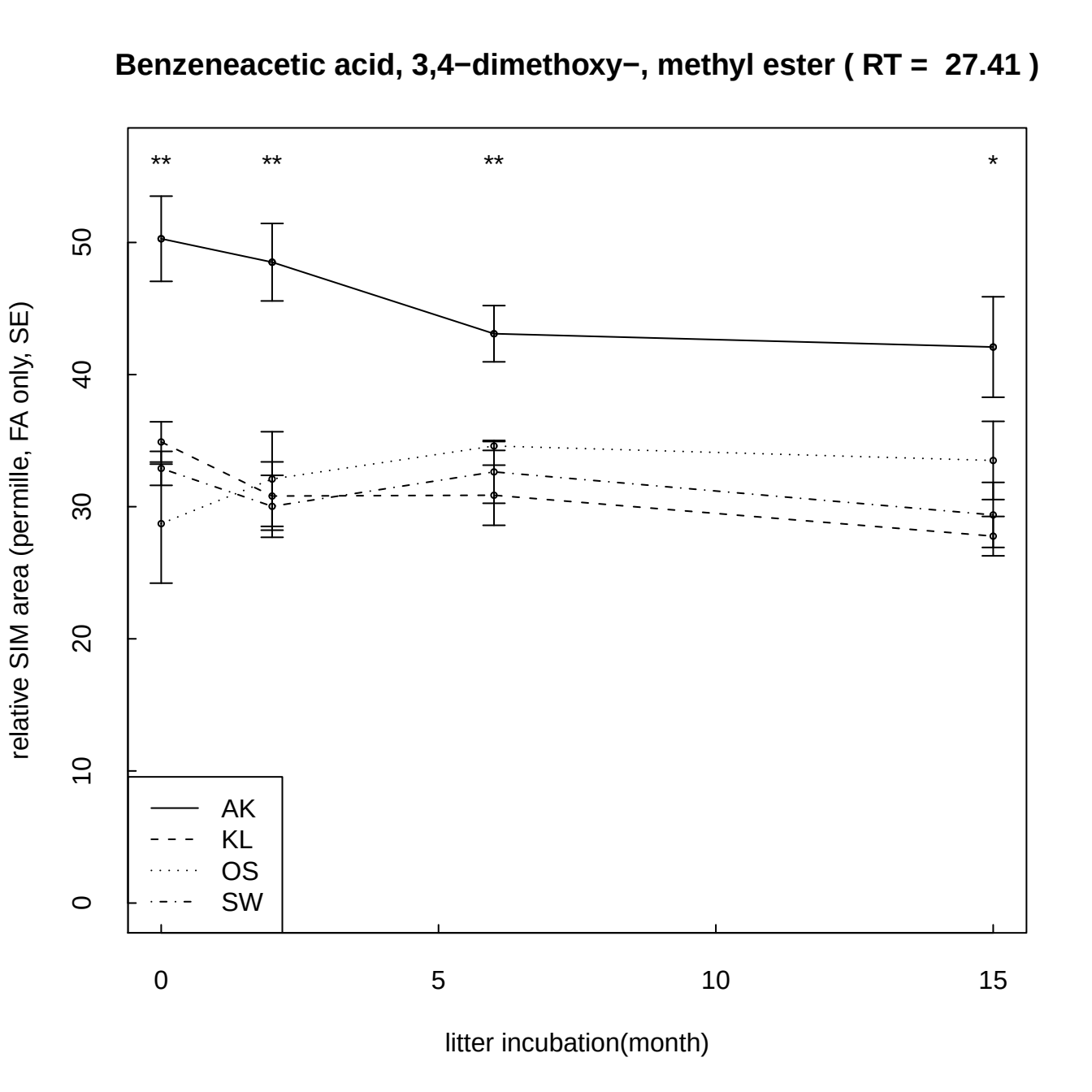

3,4−dimethoxy−benzoic ac., ME (RT = 26.24)
relative SIM area (permille, FA only, SE)
litter incubation(month)
**
AK
KL
OS
SW
0
5
10
15

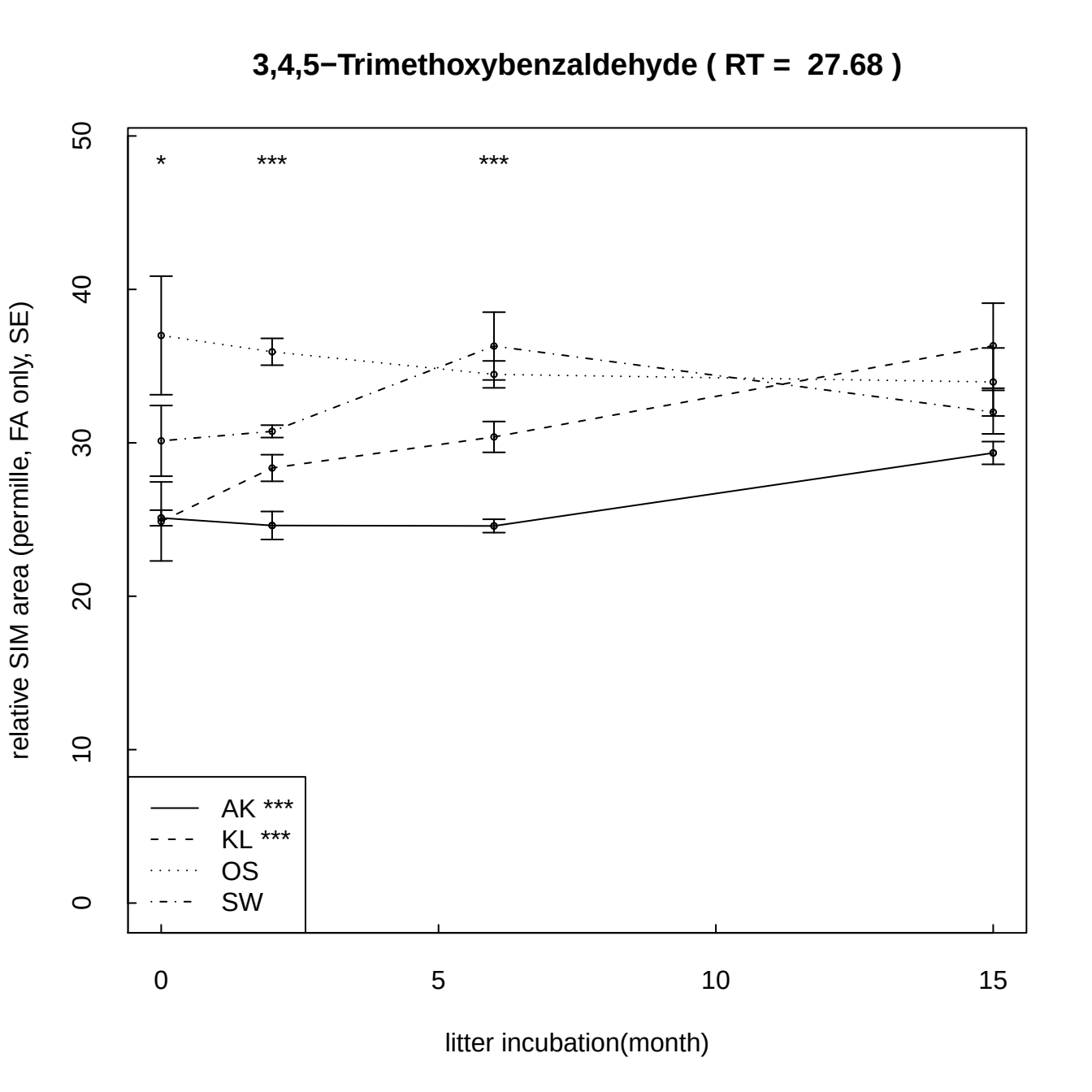

Benzoic acid, 3,4−dimethoxy−, methyl ester (RT = 26.96)
***
***
***
**
relative SIM area (permille, FA only, SE)
0
50
100
150
200
250
AK
KL
OS
SW
0
5
10
15
litter incubation(month)

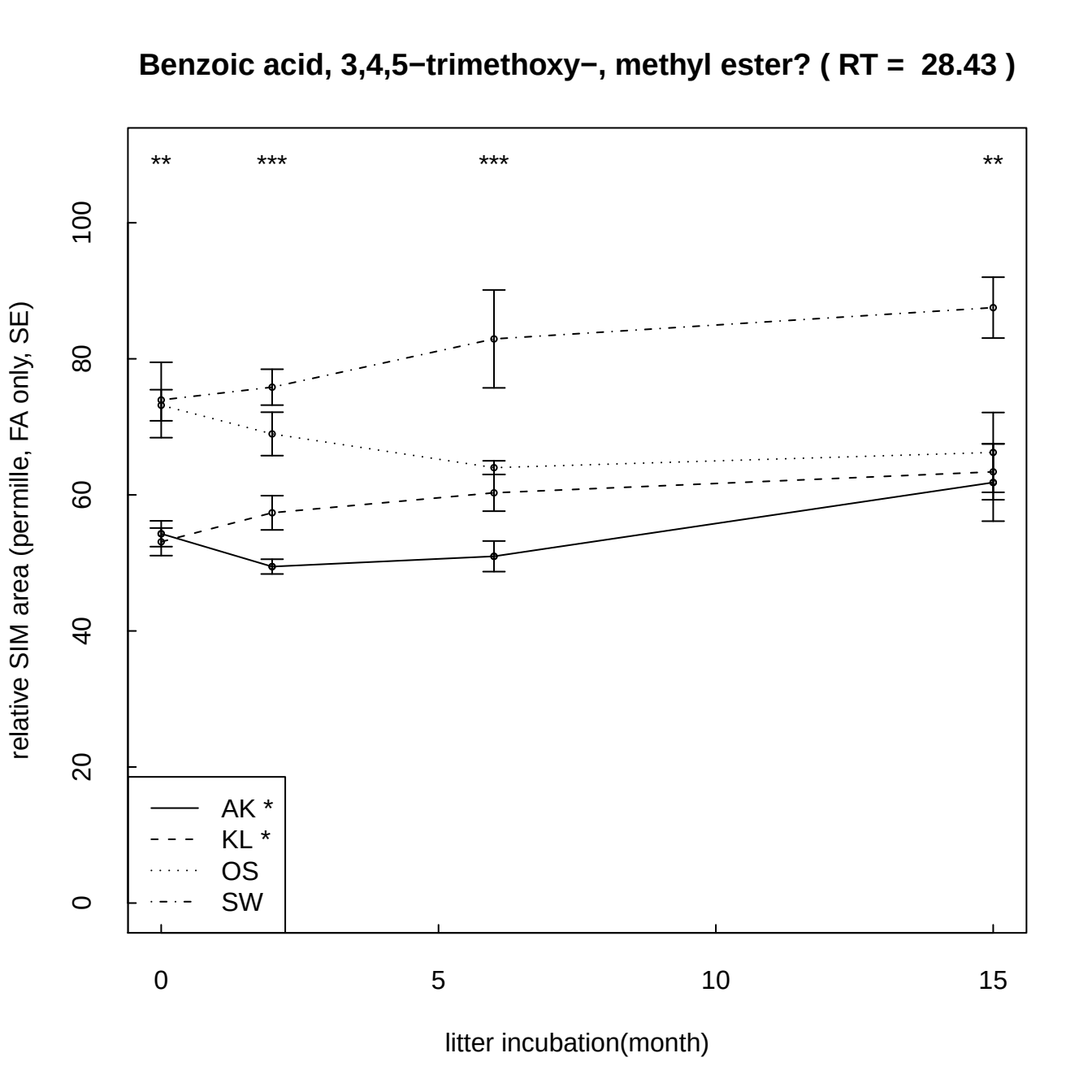

1,2−Dimethoxy−4−(2−methoxy−1−propenyl)benzene (RT = 26.99)
**
**
*
relative SIM area (permille, FA only, SE)
0
5
10
15
0
5
10
15
litter incubation(month)
AK
KL ***
OS *
SW

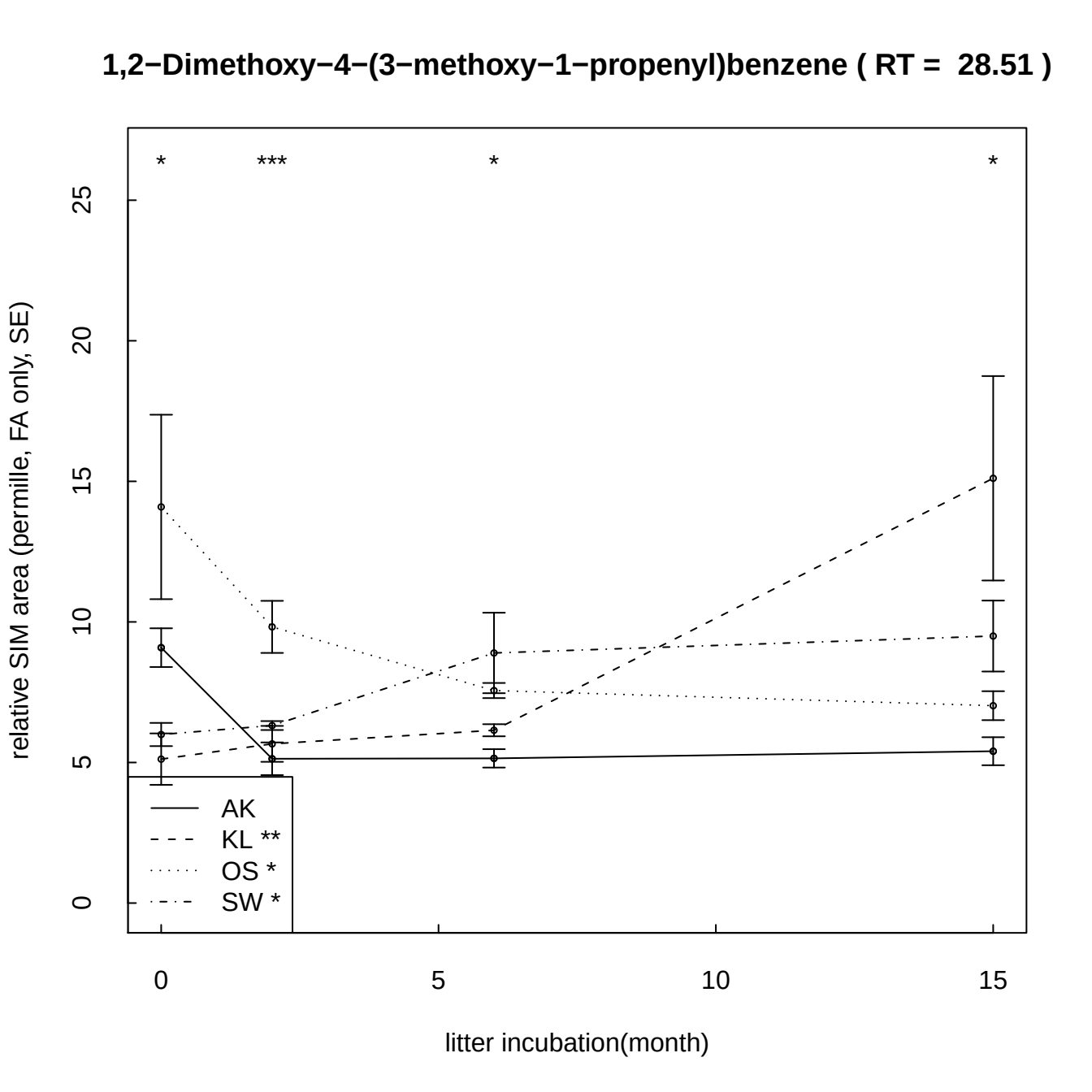

2,4−Dimethoxyacetophenone (RT = 27.12)
relative SIM area (permille, FA only, SE)
0
10
20
30
40
0
5
10
15
litter incubation(month)
AK
KL
OS
SW

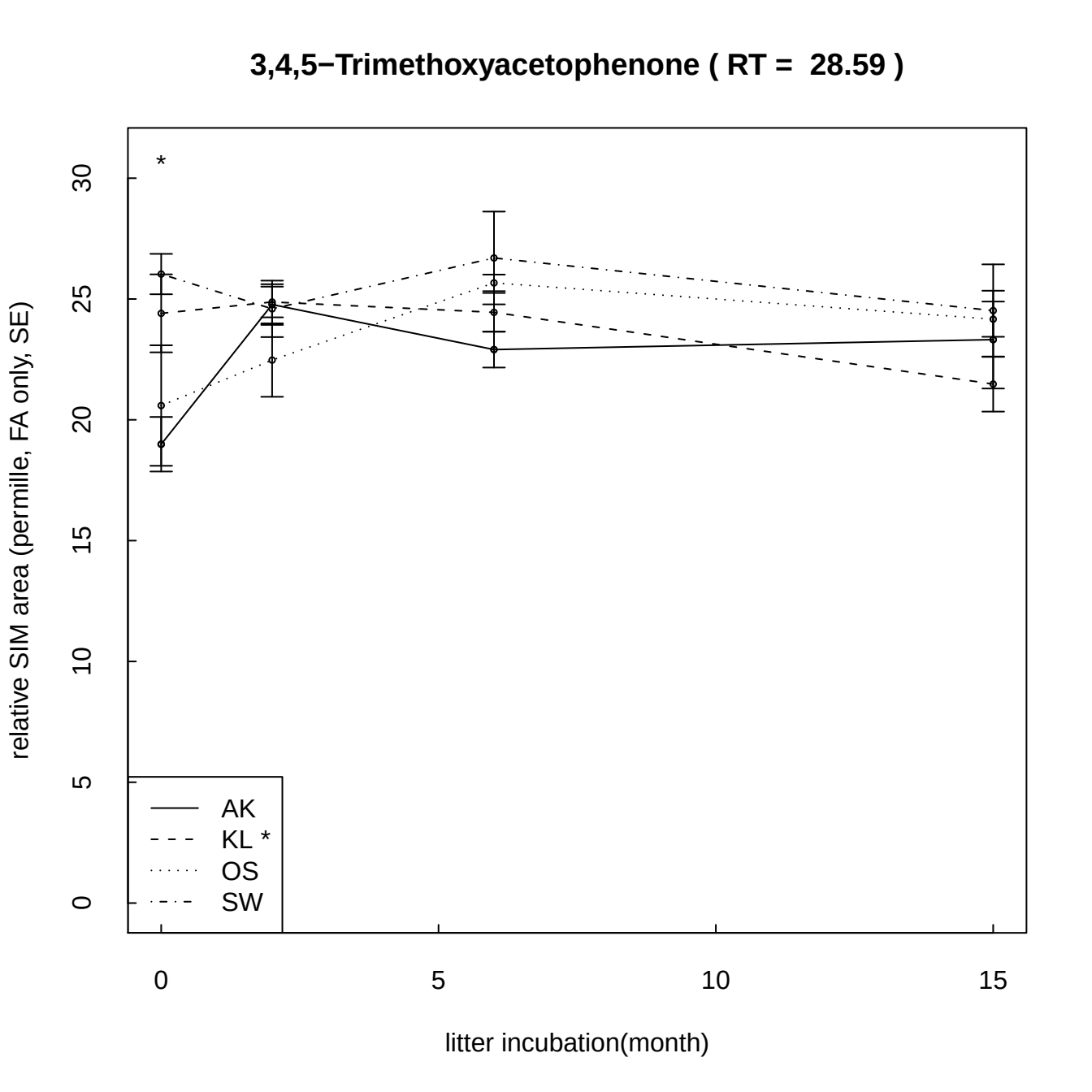

1,2−Dimethoxy−4−(2−methoxyethenyl)benzene (RT = 27.37)
relative SIM area (permille, FA only, SE)
0
20
40
60
80
*
*
*
AK
KL **
OS
SW
0
5
10
15
litter incubation(month)

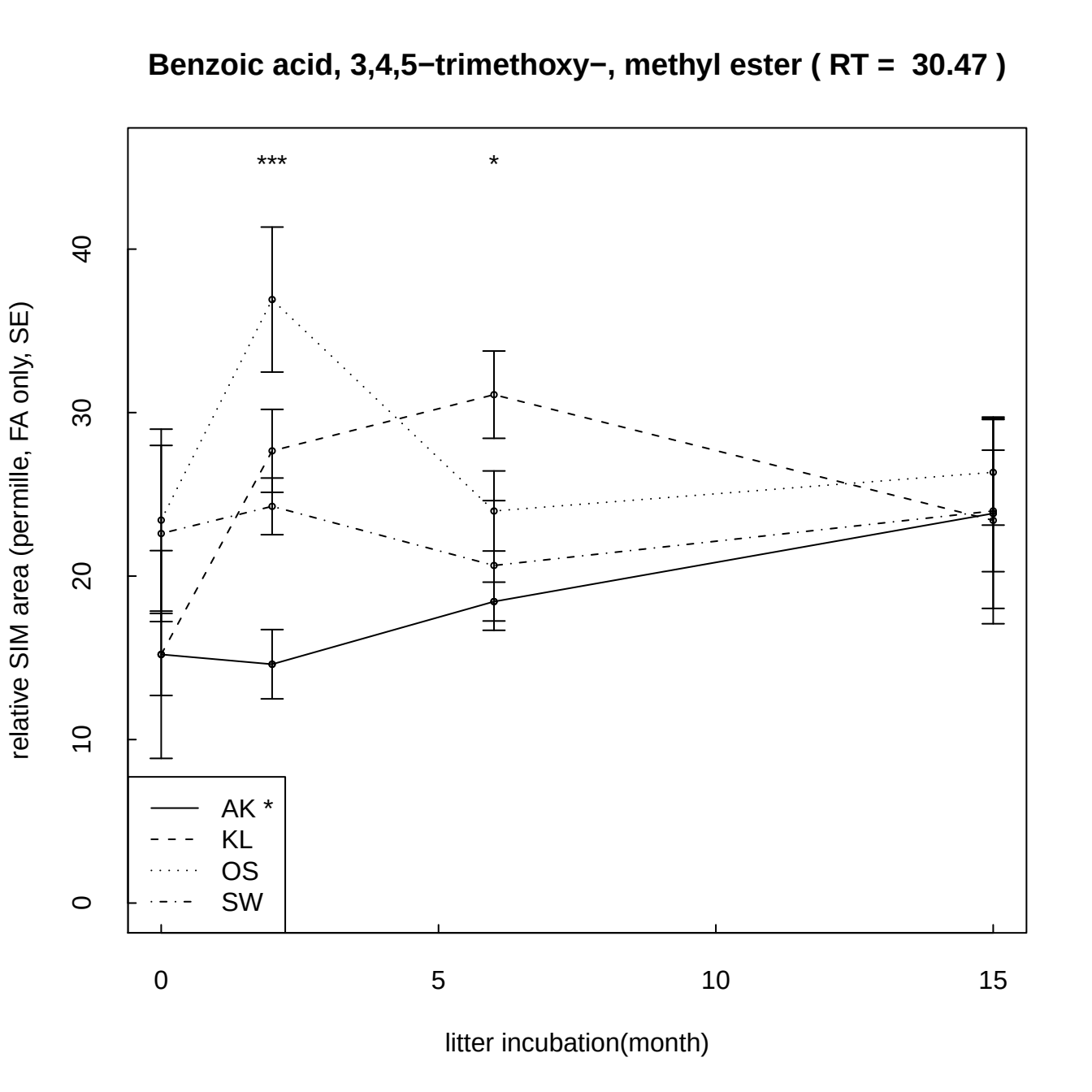

Benzeneacetic acid, 3,4−dimethoxy−, methyl ester (RT = 27.41)
**
**
**
*
relative SIM area (permille, FA only, SE)
0
10
20
30
40
50
AK
KL
OS
SW
0
5
10
15
litter incubation(month)

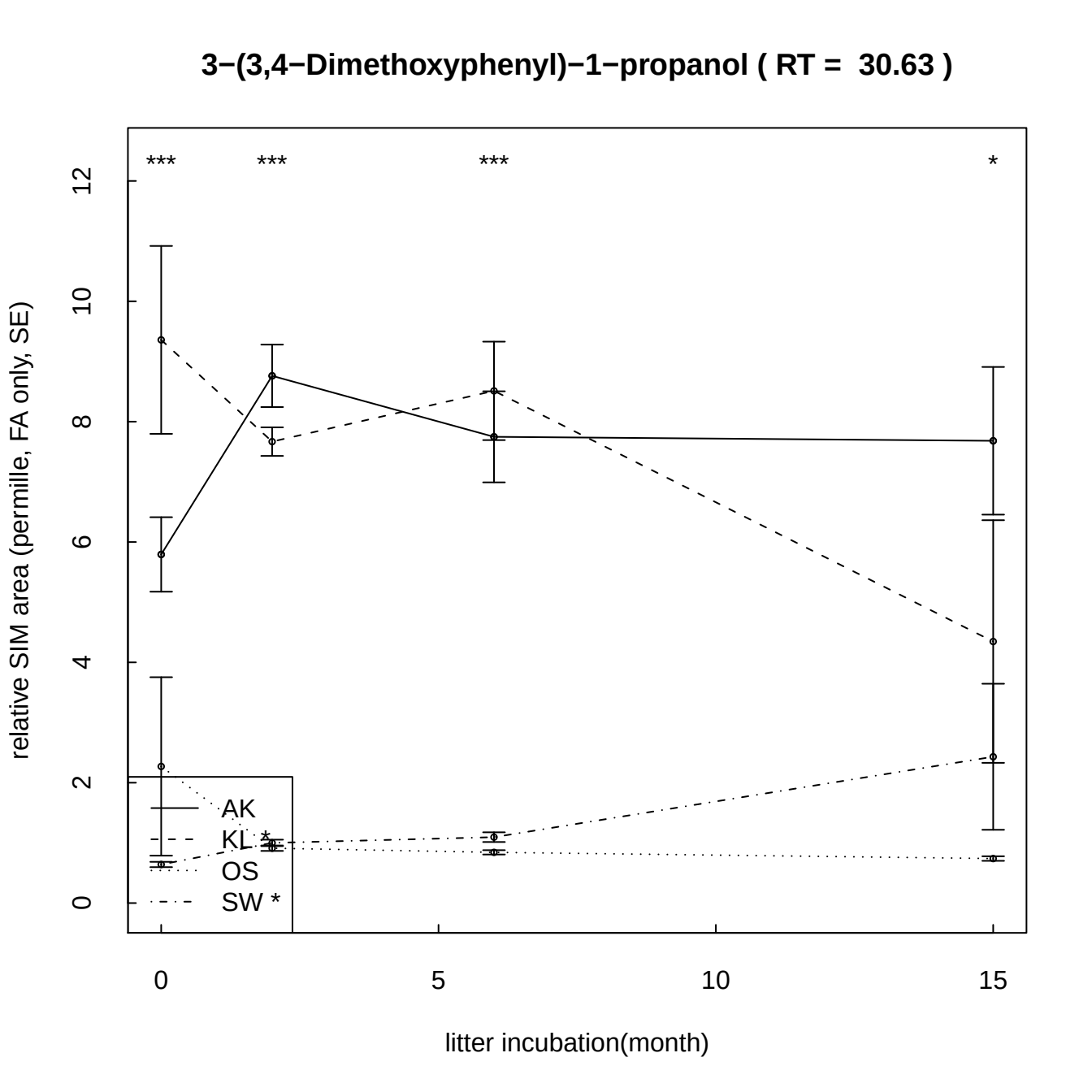

3,4,5−Trimethoxybenzaldehyde (RT = 27.68)
relative SIM area (permille, FA only, SE)
litter incubation(month)
*
***
***
AK ***
KL ***
OS
SW
0
10
20
30
40
50
0
5
10
15

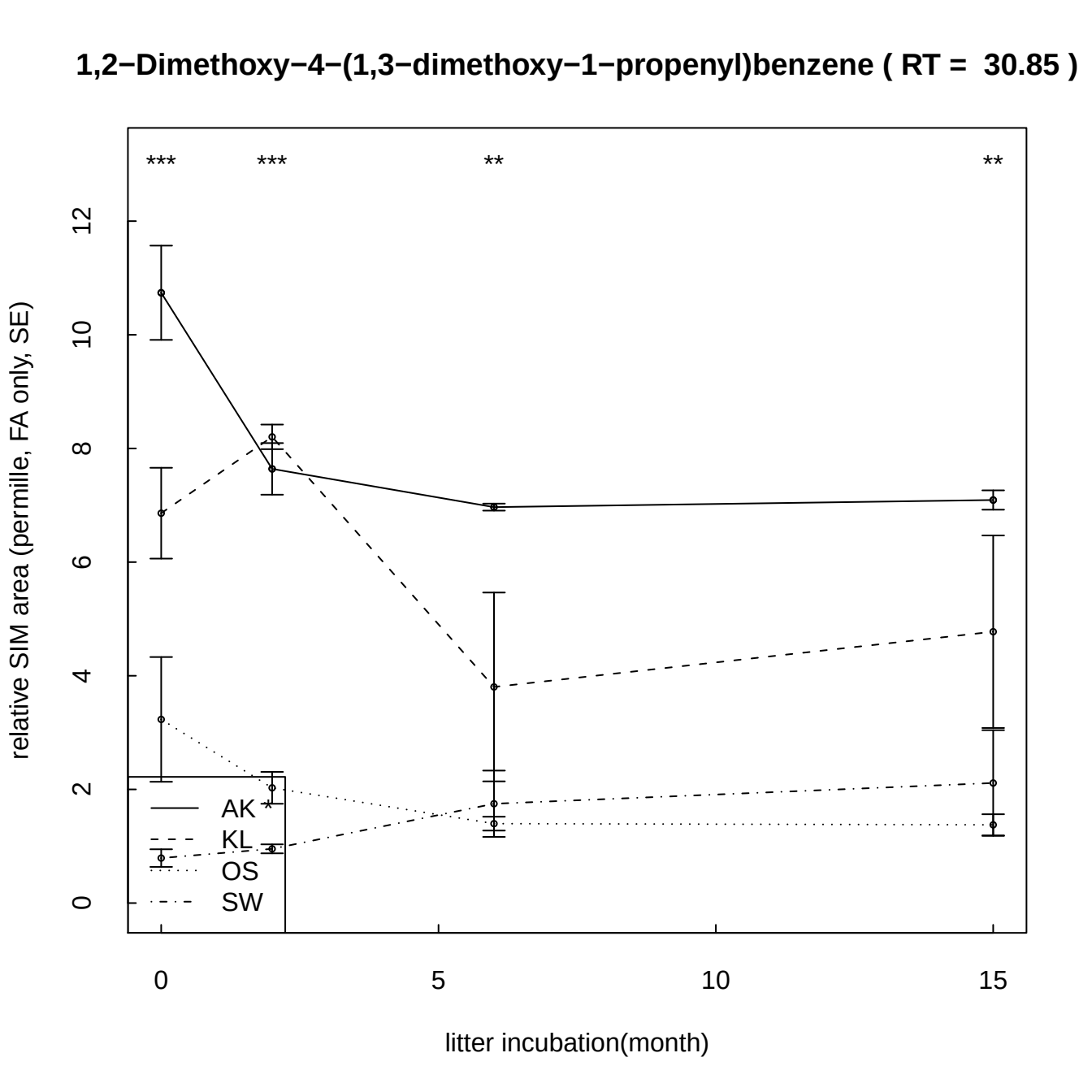

Benzoic acid, 3,4,5−trimethoxy−, methyl ester? (RT = 28.43)
**
***
***
**
relative SIM area (permille, FA only, SE)
0
20
40
60
80
100
AK *
KL *
OS
SW
0
5
10
15
litter incubation(month)

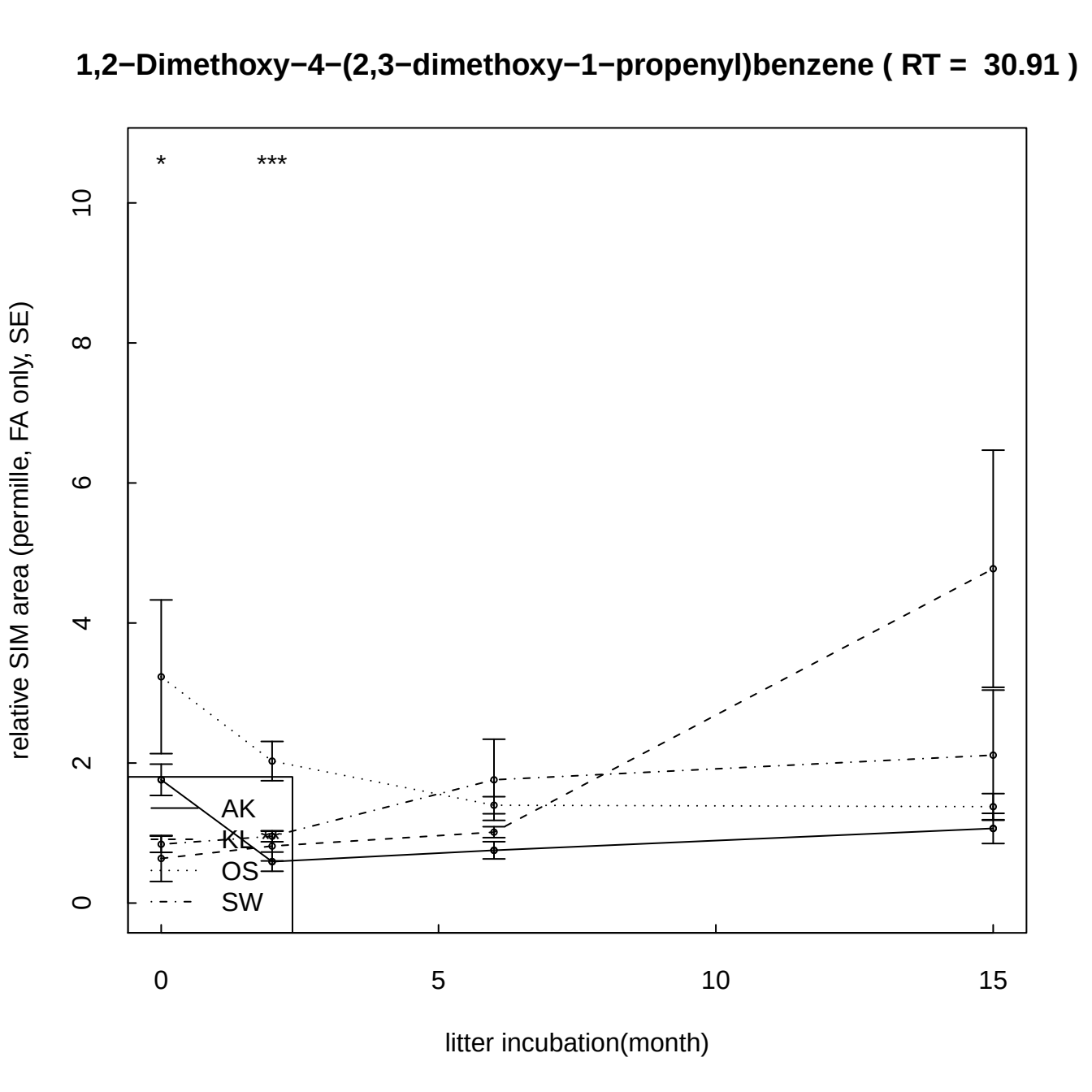

1,2−Dimethoxy−4−(3−methoxy−1−propenyl)benzene (RT = 28.51)
*
***
*
*
relative SIM area (permille, FA only, SE)
0
5
10
15
20
25
AK
KL **
OS *
SW *
0
5
10
15
litter incubation(month)

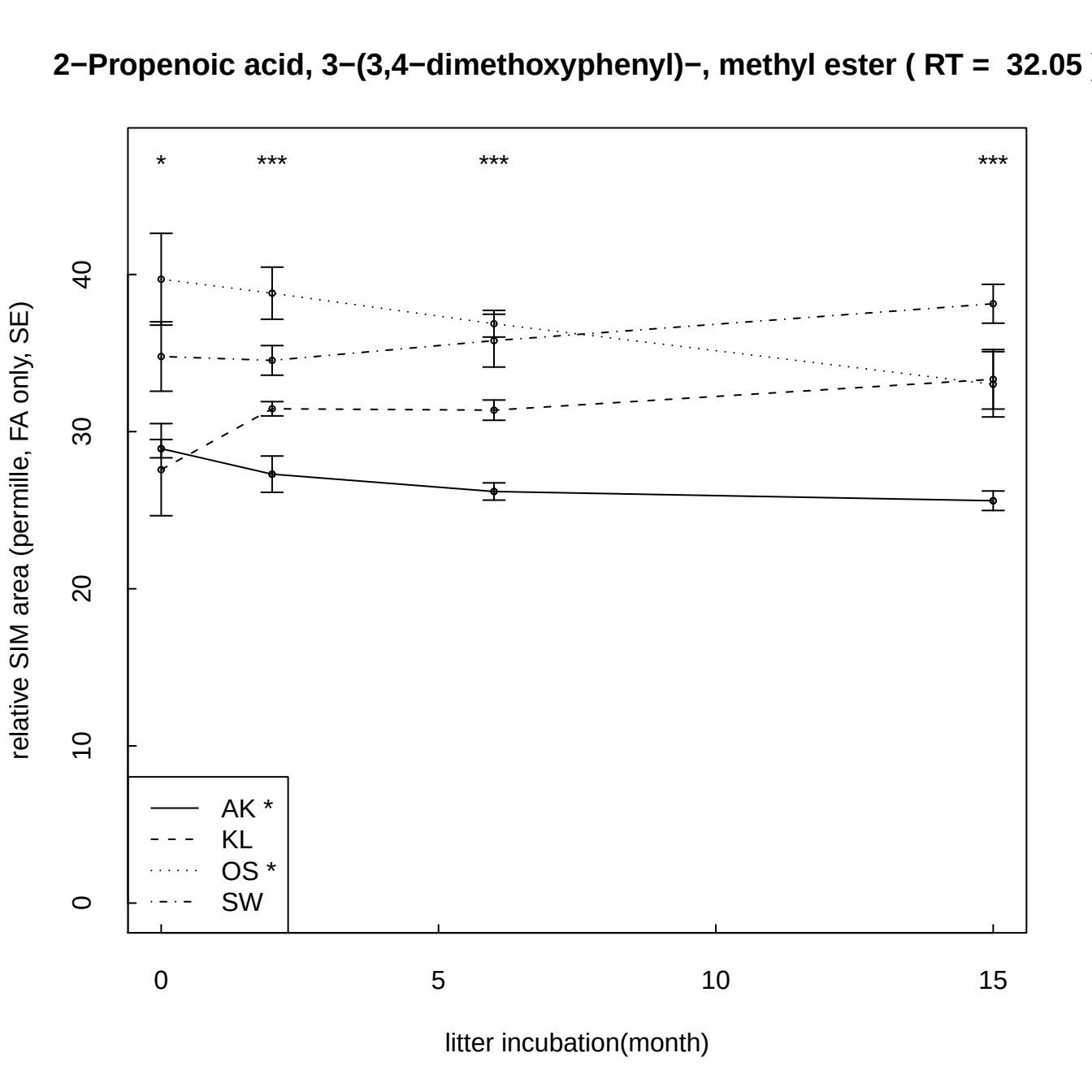

3,4,5−Trimethoxyacetophenone (RT = 28.59)
*
relative SIM area (permille, FA only, SE)
0
5
10
15
20
25
30
AK
KL *
OS
SW
0
5
10
15
litter incubation(month)

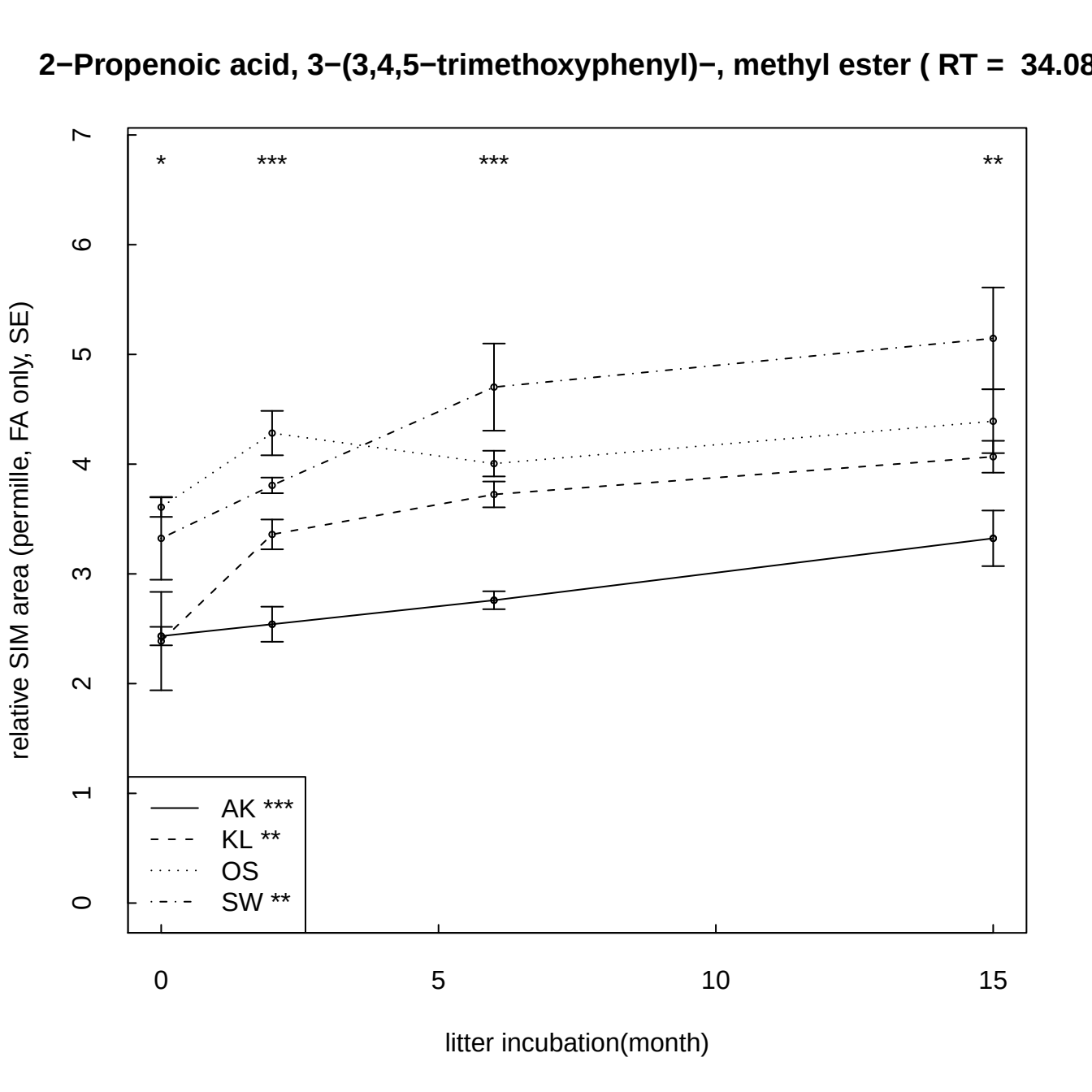

Benzoic acid, 3,4,5−trimethoxy−, methyl ester (RT = 30.47)
***
*
relative SIM area (permille, FA only, SE)
0
10
20
30
40
AK *
KL
OS
SW
0
5
10
15
litter incubation(month)

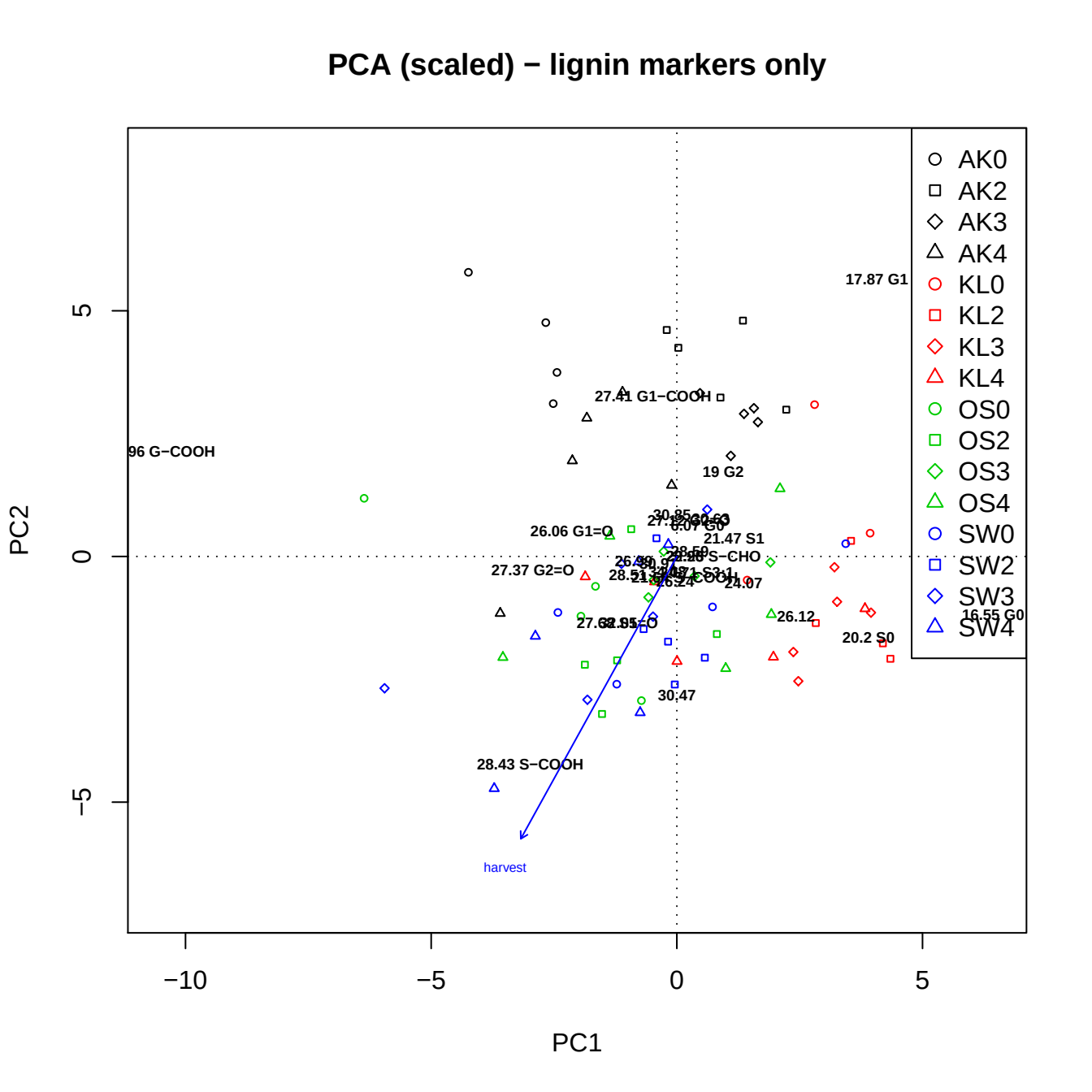

3−(3,4−Dimethoxyphenyl)−1−propanol (RT = 30.63)
relative SIM area (permille, FA only, SE)
litter incubation(month)
***
***
***
*
AK
KL *
OS
SW *
0
2
4
6
8
10
12
0
5
10
15


1,2−Dimethoxy−4−(1,3−dimethoxy−1−propenyl)benzene (RT = 30.85)
***
***
**
**
relative SIM area (permille, FA only, SE)
0
2
4
6
8
10
12
AK *
KL
OS
SW
0
5
10
15
litter incubation(month)


1,2−Dimethoxy−4−(2,3−dimethoxy−1−propenyl)benzene (RT = 30.91)
*
***
relative SIM area (permille, FA only, SE)
0
2
4
6
8
10
AK
KL
OS
SW
0
5
10
15
litter incubation(month)


2−Propenoic acid, 3−(3,4−dimethoxyphenyl)−, methyl ester (RT = 32.05)
*
***
***
***
relative SIM area (permille, FA only, SE)
0
10
20
30
40
AK *
KL
OS *
SW
0
5
10
15
litter incubation(month)


2−Propenoic acid, 3−(3,4,5−trimethoxyphenyl)−, methyl ester (RT = 34.08
relative SIM area (permille, FA only, SE)
litter incubation(month)
*
***
***
**
AK ***
KL **
OS
SW **
0
1
2
3
4
5
6
7
0
5
10
15


PCA (scaled) − lignin markers only
AK0
AK2
AK3
AK4
KL0
KL2
KL3
KL4
OS0
OS2
OS3
OS4
SW0
SW2
SW3
SW4
17.87 G1
27.41 G1−COOH
96 G−COOH
19 G2
26.06 G1=O
21.47 S1
27.37 G2=O
24.07
26.12
20.2 S0
16.55 G0
30.47
28.43 S−COOH
harvest
PC1
PC2
−10
−5
0
5
−5
0
5